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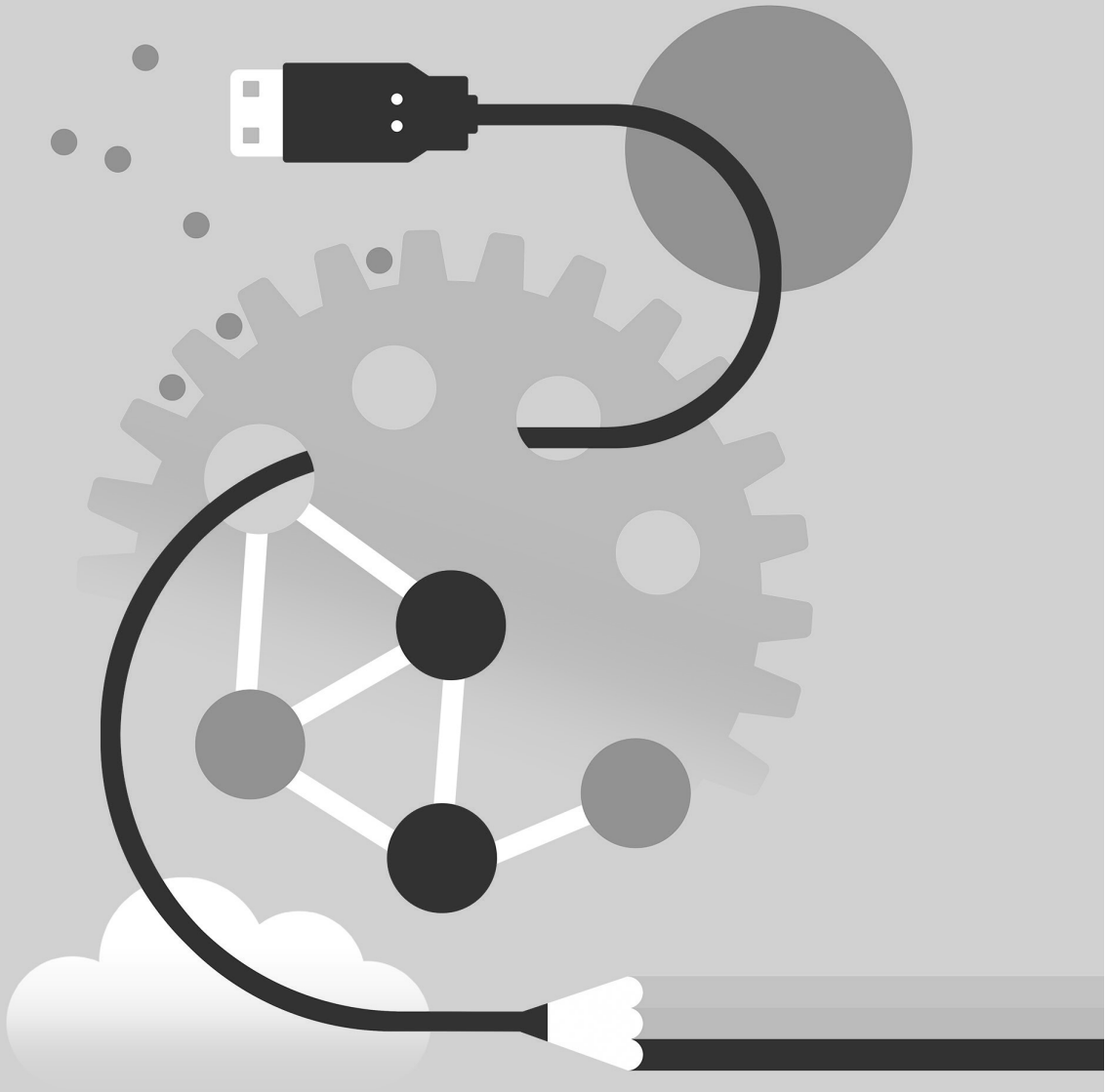

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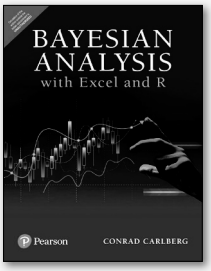

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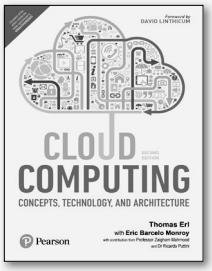

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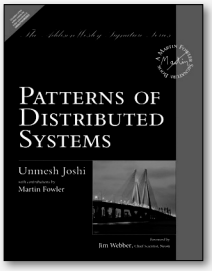

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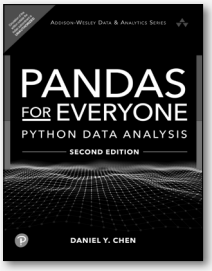

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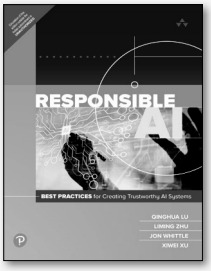

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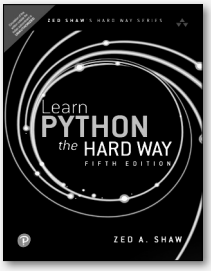

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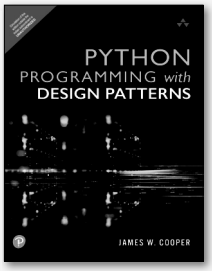

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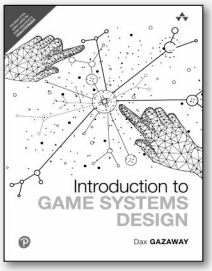

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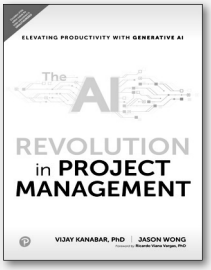

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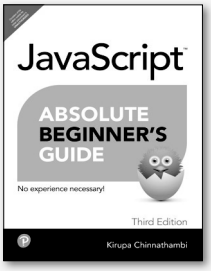

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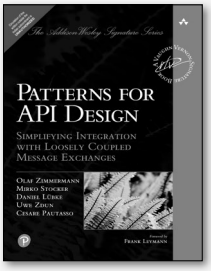

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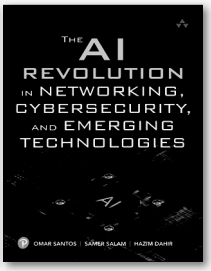

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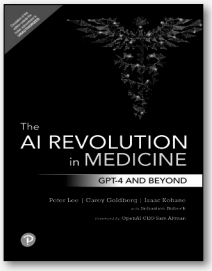

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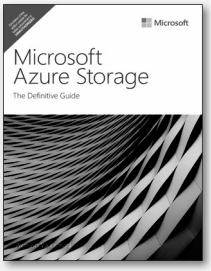

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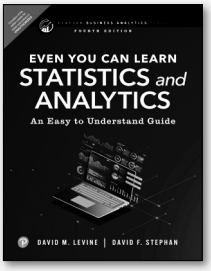

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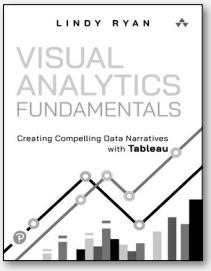

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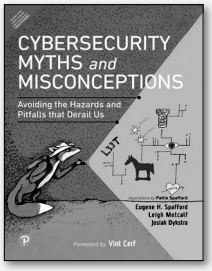

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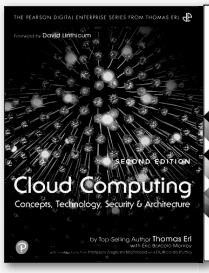

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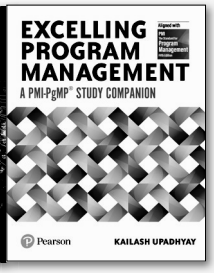

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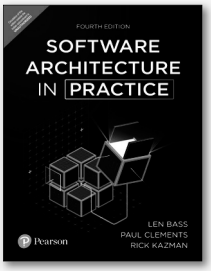

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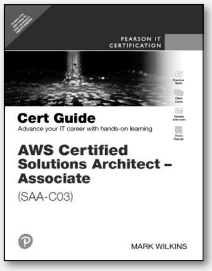

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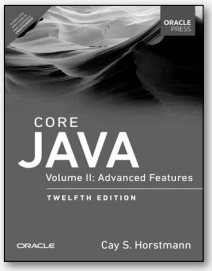

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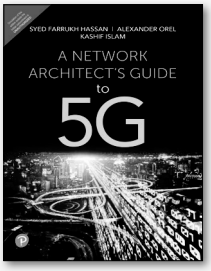

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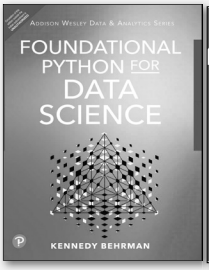

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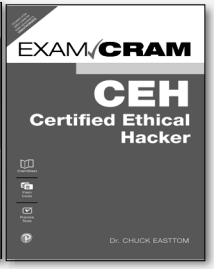

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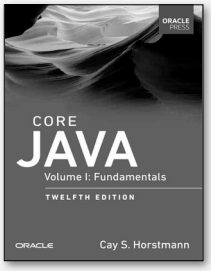

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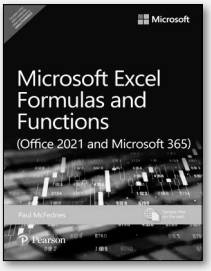

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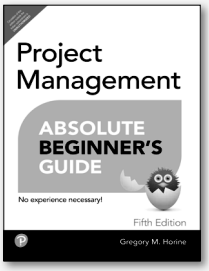

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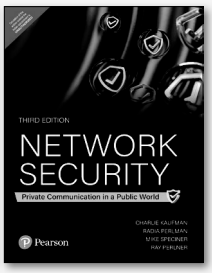

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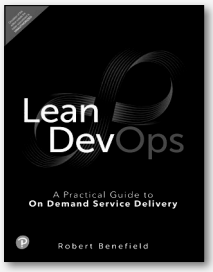

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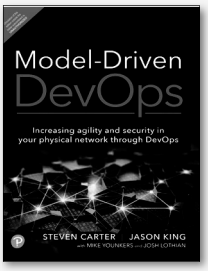

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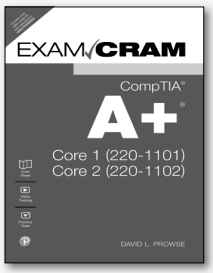

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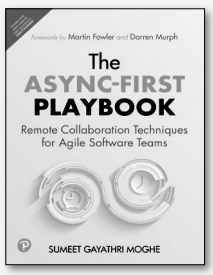

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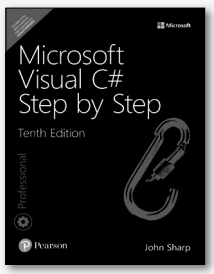

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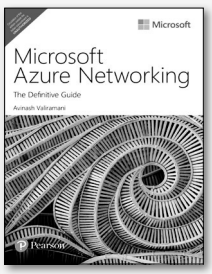

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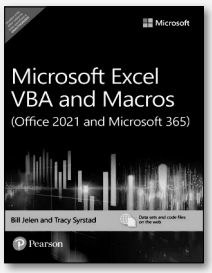

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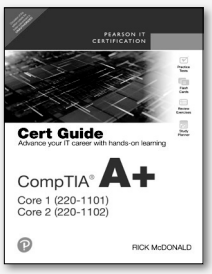

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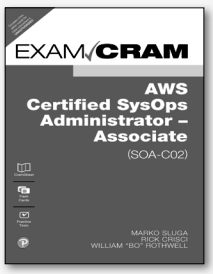

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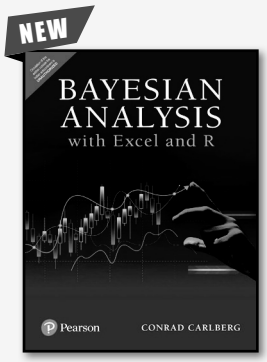
Data Science, Machine Learning & IoT



Bayesian Analysis with Excel and *R*

Conrad Carlberg

E-Book Available

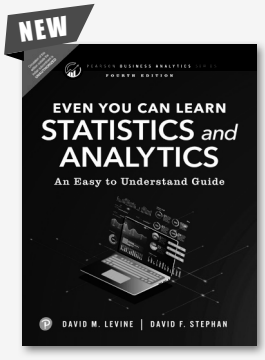
ISBN: **9788119896554** | Pages: **168** | Year: **2024**

About the book

Bayesian methods can solve problems which can't be reliably handled any other way. Building on existing Excel analytics skills and experience, Microsoft Excel MVP Conrad Carlberg helps learners make the most of Excel's Bayesian capabilities and move toward *R* to do even more. Step by step, with real-world examples, Carlberg shows how to use Bayesian analytics to solve a wide array of real problems. Carlberg clarifies terminology that often bewilders analysts, provides downloadable Excel workbooks that can easily adapt to learner's needs, and offers sample *R* code to take advantage of the rethinking package in *R* and its gateway to Stan.

Features

- Explores key ideas and strategies that underlie Bayesian analysis
- Distinguishes between prior, likelihood, and posterior distributions, and compare algorithms for driving sampling inputs
- Uses grid approximation to solve simple univariate problems, and understand its limits as parameters increase
- Elaborates complex simulations and regressions with quadratic approximation and Richard McElreath's quap function
- Discusses today's gold-standard Bayesian sampling technique: Markov Chain Monte Carlo (MCMC)
- Explains MCMC to optimize execution speed in high-complexity problems



Even You Can Learn Statistics and Analytics: An Easy to Understand Guide, 4e

E-Book Available

David M. Levine | David F. Stephan

ISBN: **9789361596964** | Pages: **392** | Year: **2024**

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About the book

This book discusses statistics and analytics using plain language and avoiding mathematical jargon. If you thought you couldn't learn these data analysis subjects because they were too technical or too mathematical, this book is for you! This edition delivers more everyday examples and end-of-chapter exercises and contains updated instructions for using Microsoft Excel. You'll use downloadable data sets and spreadsheet solutions, template-based solutions you can put right to work. Using this book, you will understand the important concepts of statistics and analytics, including learning the basic vocabulary of these subjects.

Features

- Create tabular and visual summaries and learn to avoid

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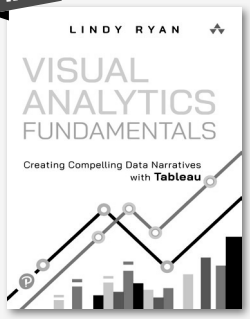
common charting errors

- Gain experience working with common descriptive statistics measures including the mean, median, and mode; and standard deviation and variance, among others
- Understand the probability concepts that underlie inferential statistics
- Learn how to apply hypothesis tests, using Z, t, chi-square, ANOVA, and other techniques
- Develop skills using regression analysis, the most commonly-used Inferential statistical method
- Explore results produced by predictive analytics software
- Choose the right statistical or analytic techniques for any data analysis task
- Optionally, read the Equation Blackboards, designed for readers who want to learn about the mathematical foundations of selected methods

NEW



Visual Analytics Fundamentals: Creating Compelling Data Narratives with Tableau

Lindy Ryan

ISBN: **9789361595646** | Pages: **284** | Year: **2024**

E-Book Available

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About the book

Do you need to persuade or inform people? Do you have data? Then you need to master visual analytics and visual storytelling. Today, the #1 tool for telling visual stories with data is Tableau, and demand for Tableau skills is soaring. In Visual Analytics Fundamentals, renowned visual storyteller and analytics professor Lindy Ryan introduces all the fundamental visual analytics knowledge, cognitive and perceptual concepts, and hands-on Tableau techniques you'll need. Ryan puts core analytics and visual concepts upfront, so you'll always know exactly what you're trying to accomplish and can apply this knowledge with any tool. Building on this foundation, she presents classroom-proven guided exercises for translating ideas into reality with Tableau 2022. You'll learn how to organize data and structure analysis with stories in mind, embrace exploration and visual discovery, and articulate your findings with rich data, well-curated visualizations, and skillfully crafted narrative frameworks. Ryan's insider tips take you far beyond the basics--and you'll rely on her expert checklists for years to come.

Features

- Communicate more powerfully by applying scientific knowledge of the human brain
- Get started with the Tableau platform and Tableau Desktop 2022
- Connect data and quickly prepare it for analysis
- Ask questions that help you keep data firmly in context
- Choose the right charts, graphs, and maps for each project--and avoid the wrong ones
- Craft storyboards that reflect your message and audience
- Direct attention to what matters most
- Build data dashboards that guide people towards meaningful outcomes
- Master advanced visualizations, including timelines, Likert scales, and lollipop charts

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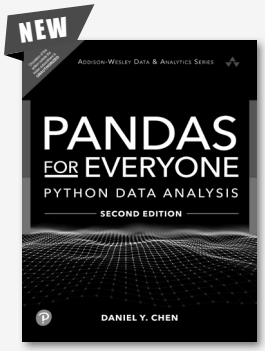


Pandas for Everyone – Python Data Analysis 2e

Daniel Y. Chen

ISBN: **9789361592225** | Pages: **512** | Year: **2024**

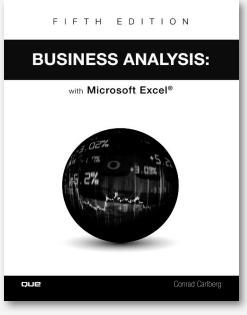
E-Book Available

About the book

Today, analysts must manage data characterized by extraordinary variety, velocity, and volume. Using the open source Pandas library, you can use Python to rapidly automate and perform virtually any data analysis task, no matter how large or complex. Pandas can help you ensure the veracity of your data, visualize it for effective decision-making, and reliably reproduce analyses across multiple data sets. Pandas for Everyone, 2nd Edition, brings together practical knowledge and insight for solving real problems with Pandas, even if you're new to Python data analysis. Daniel Y. Chen introduces key concepts through simple but practical examples, incrementally building on them to solve more difficult, real-world data science problems such as using regularization to prevent data overfitting, or when to use unsupervised machine learning methods to find the underlying structure in a data set.

Features

- Extended coverage of plotting and the seaborn data visualization library Expanded examples and resources Updated Python 3.9 code and packages coverage, including statsmodels and scikit-learn libraries



Business Analysis with Microsoft Excel, 5e

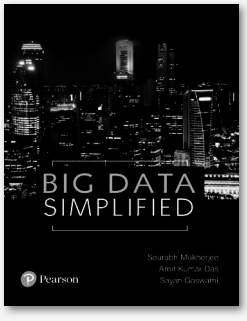
Conrad Carlberg

ISBN: **9789353433857** | Pages: **579** | Year: **2019**

E-Book Available

About the book

Business analysis expert Conrad Carlberg shows readers how to use Excel to perform core financial tasks all managers and entrepreneurs need to master: analyzing statements, planning and controlling company finances, making investment decisions, and managing sales and marketing. Carlberg helps readers make the most of Excel's tools and features in everything from business case development to cash flow analysis.



Big Data Simplified

Sourabh Mukherjee | Amit Kumar Das | Sayan Goswami

ISBN: **9789353435110** | Pages: **320** | Year: **2019**

E-Book Available

About the book

Big Data Simplified blends technology with strategy and delves into applications of big data in specialised areas, such as recommendation engines, data science and Internet of Things (IoT) and enables a practitioner to make the right technology choice. The steps to strategise a big data implementation are also discussed in detail. This book presents a holistic approach to the topic, covering a wide landscape of big data technologies like Hadoop 2.0 and package implementations, such as Cloudera. In-depth discussion of associated technologies, such as MapReduce, Hive, Pig, Oozie, ApacheZookeeper, Flume, Kafka, Spark, Python and NoSQL databases like Cassandra, MongoDB, GraphDB, etc., is also included.

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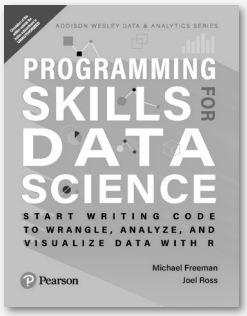


Programming Skills For Data Science

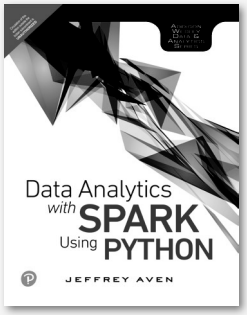
Michael Freeman | Joel Ross

ISBN: **9789389552928** | Pages: **396** | Year: **2020**

E-Book Available

About the book

Programming Skills for Data Science brings together all the foundation skills needed to transform raw data into actionable insights for domains ranging from urban planning to precision medicine, even if you have no programming or data science experience. Guided by expert instructors Micheal Freeman and Joel Ross, this book will help learners install the tools required to solve professional-level data science problems, including widely used R language, RStudio integrated development environment, and Git version-control system. It explains how to wrangle data into a form where it can be easily used, analyzed, and visualized so others can see the patterns uncovered. Step by step, students will master powerful R programming techniques and troubleshooting skills for probing data in new ways, and at larger scales.



Data Analytics with Spark Using Python

Jeffrey Aven

ISBN: **9789353068455** | Pages: **320** | Year: **2019**

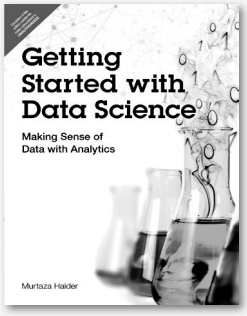
E-Book Available

About the book

Spark is at the heart of today's Big Data revolution, helping data professionals supercharge efficiency and performance in a wide range of data processing and analytics tasks. In this guide, Big Data expert Jeffrey Aven covers all students need to know to leverage Spark, together with its extensions, subprojects, and wider ecosystem.

Aven combines a language-agnostic introduction to foundational Spark concepts with extensive programming examples utilizing the popular and intuitive PySpark development environment. This guide's focus on Python makes it widely accessible to students at various levels of experience-even those with little Hadoop or Spark experience.

Aven's broad coverage ranges from basic to advanced Spark programming, and Spark SQL to machine learning. Students will learn how to effi ciently manage all forms of data with Spark: streaming, structured, semi-structured, and unstructured. Throughout, concise topic overviews quickly get you up to speed, and extensive hands-on exercises prepare you to solve real problems.



Getting Started with Data Science

Murtaza Haider

ISBN: **9789332570252** | Pages: **608** | Year: **2016**

About the book

Getting Started with Data Science takes its approach from worldwide best-sellers like Freakonomics and the books of Malcolm Gladwell: it teaches through a powerful narrative packed with unforgettable stories. The book covers basic theory and technique, backed with plenty of clear, jargon-free examples and practice opportunities. Everything's software and platform independent, so students can learn what they need whether they work with R, Stata, SPSS, SAS, or another toolset.

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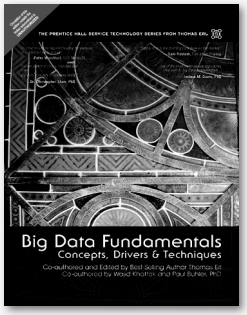


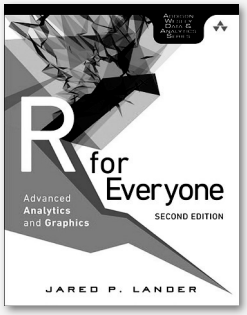
Big Data Fundamentals

Thomas Erl

ISBN: **9789332575073** | Pages: **240** | Year: **2016**

About the book

Big Data Science Fundamentals offers a comprehensive, easy-to-understand, and up-to-date understanding of Big Data for all business professionals and technologists. Leading enterprise technology author Thomas Erl introduces key Big Data concepts, theory, terminology, technologies, key analysis/analytics techniques, and more - all logically organized, presented in plain English, and supported by easy-to-understand diagrams and case study examples.



R for Everyone: Advanced Analytics and Graphics, 2e

Jared P Lander

ISBN: **9789386873521** | Pages: **560** | Year: **2018**

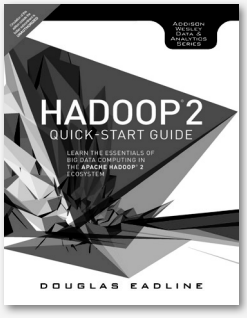
E-Book Available

About the book

Using the open source R language, you can build powerful statistical models to answer many of your most challenging questions. R has traditionally been difficult for non-statisticians to learn, and most R books assume far too much knowledge to be of help. R for Everyone, Second Edition, is the solution.

Features

- Drawing on his unsurpassed experience teaching new users, professional data scientist Jared P. Lander has written the perfect tutorial for anyone new to statistical programming and modeling. Organized to make learning easy and intuitive, this guide focuses on the 20 percent of R functionality you'll need to accomplish 80 percent of modern data tasks.
- Lander's self-contained chapters start with the absolute basics, offering extensive hands-on practice and sample code. You'll download and install R navigate and use the R environment master basic program control, data import, manipulation, and visualization and walk through several essential tests. Then, building on this foundation, you'll construct several complete models, both linear and nonlinear, and use some data mining techniques.
- By the time you're done, you won't just know how to write R programs, you'll be ready to tackle the statistical problems you care about most.



Hadoop 2 Quick-Start Guide

Douglas Eadline

ISBN: **9789332570351** | Pages: **304** | Year: **2016**

E-Book Available

About the book

An easy, accessible guide to Big Data technology, this book covers all the basics students need to know to install and use Hadoop 2 on both personal computers and servers, and navigate the entire Apache Hadoop ecosystem. Hadoop 2 is demystified; This guide explains the problems Hadoop solves, shows how it relates to Big Data, and demonstrates both administrators and users work with it. From its Getting Started checklist/flowchart to its roadmap of additional resources, Hadoop 2 Quick-Start Guide is the perfect Hadoop 2 starting point for students to master Big Data.

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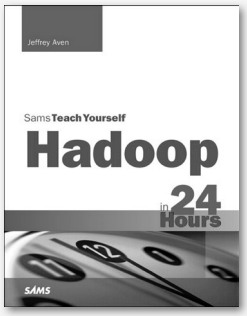


Hadoop in 24 Hours, Sams Teach Yourself

Jeffrey Aven

ISBN: **9789352866571** | Pages: **496** | Year: **2018**

About the book

Apache Hadoop is the technology at the heart of the Big Data revolution, and Hadoop skills are in enormous demand. Now, in just 24 lessons of one hour or less, students can learn all the skills and techniques they'll need to deploy each key component of a Hadoop platform in a local environment or in the cloud, building a fully functional Hadoop cluster and using it with real programs and datasets. Each short, easy lesson builds on all that's come before, helping students master all of Hadoop's essentials, and extend it to meet real-world challenges. Apache Hadoop in 24 Hours, Sams Teach Yourself covers all this, and much more.

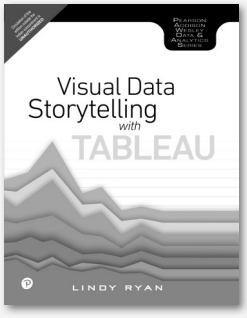
Visual Storytelling with D3

Ritchie S. King

ISBN: **9789332559974** | Pages: **280** | Year: **2016**

About the book

Top infographics expert Ritchie S. King covers both areas needed to master to build truly outstanding infographics with D3: design issues associated with crafting well-conceived infographics that communicate effectively and technical issues associated with wielding the D3 JavaScript library. Combining a strong framework of design principles with detailed, practical instructions, this is the most comprehensive and coherent treatment of D3 ever written. Drawing on his experience a working infographic artist, writer, and JavaScript programmer, King helps the reader rapidly put theory to practical use.



Visual Data Storytelling with Tableau

Lindy Ryan

ISBN: **9789353063597** | Pages: **272** | Year: **2018**

About the book

The modules in this book will go beyond the dashboard to communicate business-relevant implications of data analyses using the analytic, visualization, and storytelling capabilities of Tableau, the most popular visualization software in use by businesses world today. Each chapter will split focus between discussing key components of design practice and data visualization and introducing a format for representing information with step-by-step guides for using Tableau. By the end of this book, readers will not only understand how data stories differ from traditional storytelling and how to purposefully craft a compelling data story, but also how to employ the horsepower of Tableau to structure data analysis projects so that they can effectively analyze, visualize, and communicate insights in a way that is meaningful for stakeholders across a variety of communication mediums.

ISBN: **9789332538306**

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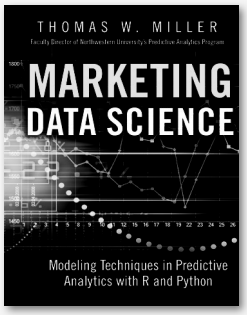


Marketing Data Science: Modeling Techniques in Predictive Analytics with R and Python

Thomas W. Miller

ISBN: **9789353065744** | Pages: **480** | Year: **2019**

About the book

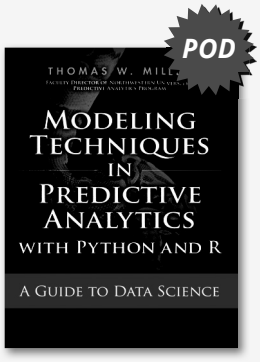
The fully-integrated, expert, hands-on guide to predictive analytics and data science for marketing.

Fully integrates everything you need to know to address real marketing challenges - including all relevant web analytics, network science, information technology, and programming techniques.

Covers analytics for segmentation, targeting, positioning, pricing, product development, site selection, recommender systems, forecasting, retention, lifetime value analysis, and much more.

Includes multiple examples demonstrated with Python and R.

By Thomas W. Miller, leader of Northwestern's pioneering predictive analytics program, and author of Modeling Techniques in Predictive Analytics



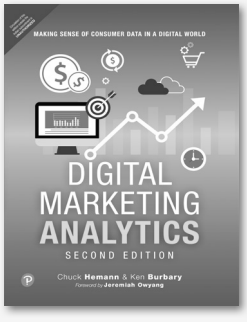
Modeling Techniques in Predictive Analytics with Python and R: A Guide to Data Science

Thomas W. Miller

ISBN: **9789353065737** | Pages: **448** | Year: **2019**

About the book

Thomas W. Miller's balanced approach combines business context and quantitative tools, appealing to managers, analysts, programmers, and students alike. This important reference addresses multiple business challenges and business cases, including segmentation, brand positioning, product choice modeling, pricing research, finance, sports, Web and text analytics, and social network analysis. He illuminates the use of cross-sectional data, time series, spatial, and even spatio-temporal data.



Digital Marketing Analytics, 2e

Ken Burbary / Chuck Hemann

ISBN: **9789353430191** | Pages: **272** | Year: **2019**

About the book

- Prioritize-because you can't measure and analyze everything
- Use analysis to craft experiences that profoundly reflect each customer's needs, expectations, and behaviors
- Measure real digital media ROI: sales, leads, and customer satisfaction
- Track the performance of all paid, earned, and owned digital channels
- Leverage digital data way beyond PR and marketing: for strategic planning, product development, and HR

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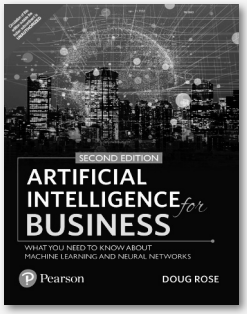
MACHINE LEARNING



Artificial Intelligence for Business, 2e

Doug Rose

ISBN: **9789356060074** | Pages: **272** | Year: **2022**

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About the book

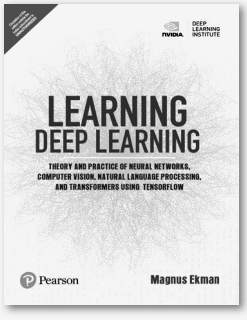
Artificial Intelligence for Business is your plain-English guide to Artificial Intelligence (AI) and Machine Learning (ML): how they work, what they can and can't do, and how to start profiting from them.

Writing for nontechnical executives and professionals, Doug Rose demystifies AI/ML technology with intuitive analogies and explanations honed through years of teaching and consulting. Rose explains everything from early "expert systems" to advanced deep learning networks.

First, Rose explains how AI and ML emerged, exploring pivotal early ideas that continue to influence the field. Next, he deepens your understanding of key ML concepts, showing how machines can create strategies and learn from mistakes. Then, Rose introduces today's powerful neural networks: systems inspired by the structure and function of the human brain. He concludes by introducing leading AI applications, from automated customer interactions to event prediction. Throughout, Rose stays focused on business: applying these technologies to leverage new opportunities and solve real problems.

Features

- Compare the ways a machine can learn, and explore today's leading ML algorithms
- Start with the right problems, and avoid common AI/ML project mistakes
- Use neural networks to automate decision-making and identify unexpected patterns
- Help neural networks learn more quickly and effectively
- Harness AI chatbots, virtual assistants, virtual agents, and conversational AI applications



Learning Deep Learning

Magnus Ekaman

ISBN: **9789356063976** | Pages: **612** | Year: **2022**

About the book

Illuminating both the core concepts and the hands-on programming techniques needed to succeed, this text can be used for students with prior programming experince but with no prior machine learning or statistics experience.

After introducing the essential building blocks of deep neural networks, such as artificial neurons and fully connected, convolutional, and recurrent layers, Ekman shows how to use them to build advanced architectures, including the Transformer. He describes how these concepts are used to build modern networks for computer vision and natural language processing (NLP), including Mask R-CNN, GPT, and BERT. And he explains a natural language translator and a system generating natural language descriptions of images.

Throughout, Ekman provides concise, well-annotated code examples using TensorFlow with Keras. Corresponding PyTorch examples are provided online, and the book thereby covers the two dominating Python libraries for DL used in industry and academia. He concludes with an introduction to neural architecture search (NAS), exploring important ethical issues and providing resources for further learning.

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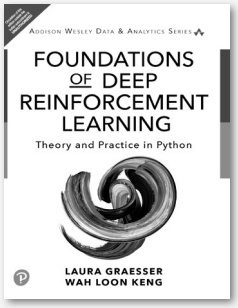
Features

- All students need to get started, and get result, sno machine learning background required.
- Packed with clear, thorough explanations and concise, well-annotated code examples.
- Presents an extensive set of code examples built with TensorFlow and the Keras API, with complementary PyTorch examples provided online.
- Thoroughly demonstrates the use of deep learning in an advanced image captioning network application that combines image and language processing.
- Straight from NVIDIA, creator of the GPU hardware that brings deep learning models to life.



Foundations of Deep Reinforcement Learning: Theory and Practice in Python

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Laura Graesser | Wah Loon Keng

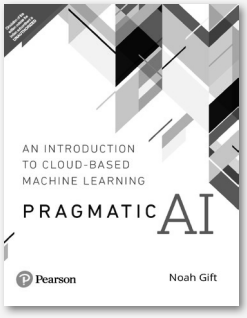
ISBN: **9789390394852** | Pages: **420** | Year: **2022**

About the book

Deep Reinforcement Learning in Python: A Hands-On Introduction is the fastest and most accessible way to get started with DRL. The authors teach through practical hands-on examples presented with their advanced OpenAI Lab framework. While providing a solid theoretical overview, they emphasize building intuition for the theory, rather than a deep mathematical treatment of results.

Features

- How to achieve breakthrough machine learning performance by combining deep neural networks with reinforcement learning
- Reduces the learning curve by relying on the authors' OpenAI Lab framework: requires less upfront theory, math, and programming expertise
- Provides well-designed, modularized, and tested code examples with complete experimental data sets to illuminate the underlying algorithms
- Includes case studies, practical tips, definitions, and other aids to learning and mastery
- Prepares readers for exciting future advances in artificial general intelligence



Pragmatic AI: An Introduction to Cloud-Based Machine Learning

Noah Gift

E-Book Available

ISBN: **9789389342451** | Pages: **192** | Year: **2020**

About the book

Pragmatic AI is the first truly practical guide to solving real-world problems with contemporary machine learning, artificial intelligence, and cloud computing tools. Writing for students who aren't professional data scientists, Noah Gift demystifies all the tools and technologies you need to get results. He illuminates powerful off-the-shelf cloud-based solutions from Google, Amazon, and Microsoft, as well as accessible techniques using Python. Throughout, readers find simple, clear, and effective working solutions that show them how to apply machine learning, AI and cloud computing together in virtually any organization, creating solutions that deliver results, and offer virtually unlimited scalability.

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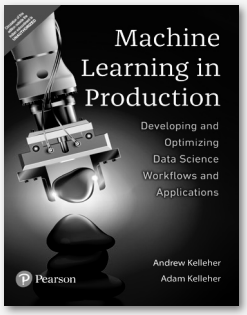


Machine Learning in Production

Andrew Kelleher | Adam Kelleher

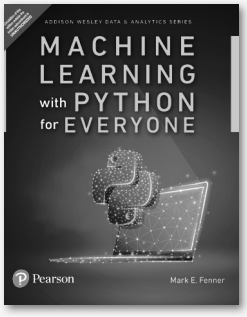
ISBN: **9789389588507** | Pages: **256** | Year: **2020**

E-Book Available

About the book

Machine Learning in Production is a crash course in data science and machine learning for learners who need to solve real-world problems in production environments. Written for technically competent "accidental data scientists" with more curiosity and ambition than formal training, this complete and rigorous introduction stresses practice, not theory.

Building on agile principles, Andrew and Adam Kelleher show how to quickly deliver significant value in production, resisting over-hyped tools and unnecessary complexity. Drawing on their extensive experience, they help you ask useful questions and then execute production projects from start to finish. The authors show just how much information you can glean with straightforward queries, aggregations, and visualizations, and they teach indispensable error analysis methods to avoid costly mistakes. They turn to workhorse machine learning techniques such as linear regression, classification, clustering, and Bayesian inference, helping you choose the right algorithm for each production problem. Their concluding section on hardware, infrastructure, and distributed systems offers unique and invaluable guidance on optimization in production environments.



Machine Learning with Python for Everyone

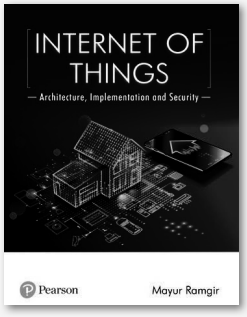
Mark Fenner

ISBN: **9789353944902** | Pages: **504** | Year: **2020**

About the book

Students are rushing to master powerful machine learning techniques for improving decision-making and scaling analysis to immense datasets. Machine Learning with Python for Everyone brings together all they'll need to succeed: a practical understanding of the machine learning process, accessible code, skills for implementing that process with Python and the scikit-learn library, and real expertise in using learning systems intelligently.

INTERNET OF THINGS (IOT)



Internet of Things

Mayur Ramgir

ISBN: **9789353438944** | Pages: **408** | Year: **2020**

E-Book Available

About the book

Today we live in an era of internet where there are more connected devices than humans. The ecosystem of these interrelated computing devices, over the internet, for data sharing, communication and automation is called Internet of Things (IoT). Internet of Things not only exposes the learners to the world of IoT but also takes them deep into implementation, security and testing. The text is supplemented with case studies and real-world examples to enable the learners efficiently implement the concepts discussed.

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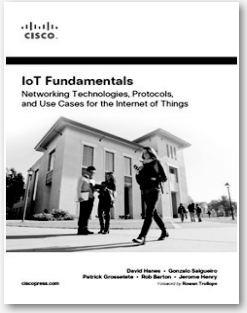


IoT Fundamentals: Networking Technologies, Protocols, and Use Cases for the Internet of Things

David Hanes

ISBN: **9789386873743** | Pages: **576** | Year: **2018**

E-Book Available

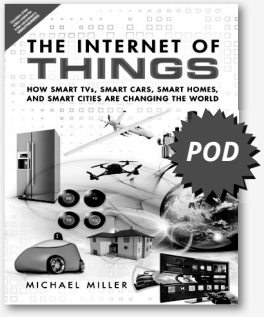
About the book

The authors begin with a high-level overview of the Internet of Things IoT) and introduce key concepts needed to successfully design IoT solutions. Next, they walk through each key technology, protocol, and technical building block that combines into complete IoT solutions.

Building on these essentials, they present several detailed use cases, including manufacturing, energy, utilities, smart + connected cities, transportation, mining, and public safety. Networking students will gain deep insight into what IoT applications can do, and what it takes to deliver them.

Features:

- Fully covers the principles and components of next-generation wireless networks built with Cisco IoT solutions such as IEEE 802.11 (Wi-Fi), IEEE 802.15.4-2015 (Mesh), and LoRaWAN
- Brings together real-world tips, insights, and best practices for designing and implementing next-generation wireless networks
- Presents start-to-finish configuration examples for common deployment scenarios
- Reflects the extensive first-hand experience of Cisco experts



The Internet of Things: How Smart TVs, Smart Cars, Smart Homes, and Smart Cities Are Changing the World

Michael Miller

ISBN: **9789332552456** | Pages: **336** | Year: **2015**

E-Book Available

About the book

The Internet of Things (IoT) won't just connect people: It will connect smart" homes, appliances, cars, offices, factories, cities the world. You need to know what's coming: It might just transform your life.

Now, the world's #1 author of beginning technology books has written the perfect introduction to IoT for everyone. Michael Miller shows how connected smart devices will help people do more, do it smarter, do it faster. He also reveals the potential risks—to your privacy, your freedom, and maybe your life. Make no mistake: IoT is coming quickly.

Miller explains why you care, helps you use what's already here, and prepares you for the world that's hurtling toward you.

- What is IoT?
- How does it work?
- How will it affect me?
- What's realistic, and what's just hype?
- How smart is my smart TV" really? (And, is it watching me?)
- Can smart IoT devices make me healthier?
- Will smart appliances ever be useful?
- How much energy could I save with a smart home?

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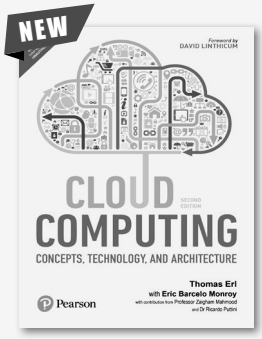


Cloud Computing, 2/e

Thomas Erl

E-Book Available

ISBN: **9788196943219** | Pages: **500** | Year: **2024**

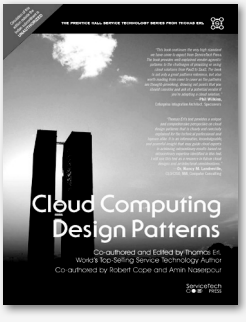
About the book

Cloud computing has become an integral and foundational part of information technology. The majority of digital business activity and technology innovation occurs with the involvement of contemporary cloud environments that provide highly sophisticated automated technology infrastructure and a vast range of technology resources. To successfully build upon, interact with, or create a cloud environment requires an understanding of its common inner mechanics, architectural layers, models, and security controls. It also requires an understanding of the business and economic factors that justify the adoption and real-world use of clouds and cloud-based products and services.

In Cloud Computing: Concepts, Technology, Security & Architecture, Thomas Erl, one of the world's top-selling IT authors, teams up with cloud computing expert Eric Barceló Monroy and researchers to break down proven and mature cloud computing technologies and practices into a series of well-defined concepts, technology mechanisms, and technology architectures. Comprehensive coverage of containerization and cybersecurity topics is also included.

Features:

- All chapters are carefully authored from an industry-centric and vendor-neutral point of view. In doing so, the book establishes concrete, academic coverage with a focus on structure, clarity, and well-defined building blocks for mainstream cloud computing and containerization platforms and solutions. With nearly 370 figures, 40 architectural models, and 50 mechanisms, this indispensable guide provides a comprehensive education of contemporary cloud computing, containerization, and cybersecurity that will never leave your side.



Cloud Computing Design Patterns

Thomas Erl

ISBN: **9789332557307** | Pages: **599** | Year: **2015**

About the book

More than two years in development, the 80+ patterns covered in this book illustrate proven architectural and design solutions to the most common problems and requirements for cloud-based solution design and implementation, with rich, visual documentation including 300+ diagrams. Erl and his colleagues document dozens of cloud computing mechanisms, each representing a well-defined component common to cloud-based environments.

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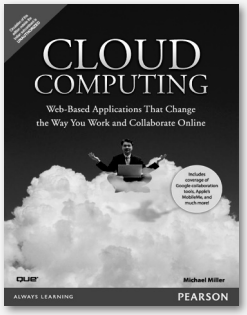


Cloud Computing

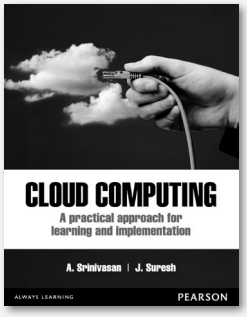
Michael Miller

ISBN: **9788131725337** | Pages: **312** | Year: **2008**

E-Book Available

About the book

With cloud computing, everything you do is now web-based instead of being desktop-based; you can access all your programs and documents from any computer that's connected to the Internet. Whether you want to share photographs with your family, coordinate volunteers for a community organization, or manage a multi-faceted project in a large organization, cloud computing can help you do it more easily than ever before.



Cloud Computing: A Practical Approach for Learning & Implementation

A Srinivasan, J Suresh

ISBN: **9788131776513** | Pages: **440** | Year: **2014**

E-Book Available

About the book

This book lays a good foundation to the core concepts and principles of cloud computing, walking the reader through the fundamental ideas with expert ease. The book advances on the topics in a step-by-step manner and reinforces theory with a full-fledged pedagogy designed to enhance students' understanding and offer them a practical insight into the subject.

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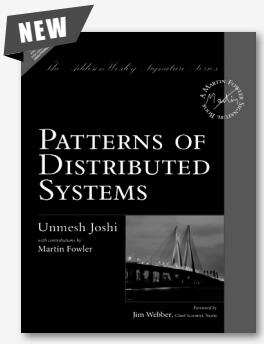


Patterns of Distributed Systems

Unmesh Joshi

ISBN: **9789361590528** | Pages: **456** | Year: **2024**

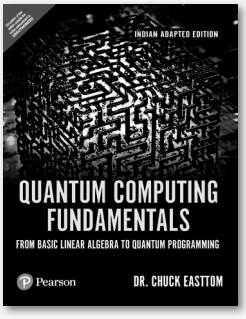
E-Book Available

About the book

Enterprises today rely on a range of distributed software handling data storage, messaging, system management, and compute capability. Distributed system designs need to be implemented in some programming language, and there are common problems that these implementations need to solve. These problems have common recurring solutions. A patterns approach is very suitable to describe these implementation aspects. Patterns by nature are generic enough to cover a broad range of products from cloud services like Amazon S3 to message brokers like Apache Kafka to infrastructure frameworks like Kubernetes to databases like MongoDB or Actor frameworks like Akka. At the same time the pattern structure is specific enough to be able to show real code. The beauty of this approach is that even if the code structure is shown in one programming language (Java in this case), the structure applies to many other programming languages. Patterns also form a "system of names," with each name having specific meaning in terms of the code structure. The set of patterns presented in Patterns of Distributed Systems will be useful to all developers--even if they are not directly involved in building these kinds of systems, and mostly use them as a black box. Learning these patterns will help readers develop a deeper understanding of the challenges presented by distributed systems and will also help them choose appropriate cloud services and products. Coverage includes Patterns of Data Replication, Patterns of Data Partitioning, Patterns of Distributed Time, Patterns of Cluster Management, and Patterns of Communication Between Nodes.

Features

- Review the building blocks of consensus algorithms, like Paxos and Raft, for ensuring replica consistency in distributed systems
- Understand the use of logical timestamps in databases, a fundamental concept for data versioning
- Explore commonly used partitioning schemes, with an in-depth look at intricacies of two-phase-commit protocol
- Analyze mechanisms used in implementing cluster coordination tasks, such as group membership, failure detection, and enabling robust cluster coordination
- Learn techniques for establishing effective network communication between cluster nodes.



Quantum Computing Fundamenals

Chuck Easttom

ISBN: **9789356062597** | Pages: **340** | Year: **2022**

About the book

Quantum Computing Fundamentals is the first systematic guidebook for the growing number of students who want to master the field's core concepts and practical techniques.

Leading security expert, researcher, instructor, and author Chuck Easttom II brings together all the knowledge you need — including essentials that other books assume you already know,

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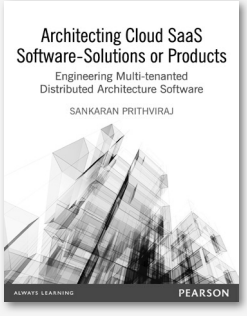
such as basic linear algebra, logic gates, and elementary quantum physics. Easttom's quizzes, hands-on exercises, and review sections help you build true mastery right now. He walks you through building real applications with Q#, Microsoft's powerful new quantum computing programming language, and using Microsoft's simulator so you don't need your own quantum computer.

Features

- The first expert one-volume guide to Quantum Computing concepts, terminology, issues, theory, and practical techniques
- Includes accessible coverage of basic linear algebra, logic gates, and other key math and physics fundamentals other books assume you already know
- Teaches hands-on quantum computing development with Microsoft Q#, the powerful new high-level quantum-focused programming language
- Contains practical, hands-on exercises unavailable elsewhere, to help readers build mastery and to support any course in the field
- By William (Chuck) Easttom II one of the world's most respected computer science and security experts, trainers, and authors



Architecting Cloud SaaS Software-Solutions or Products

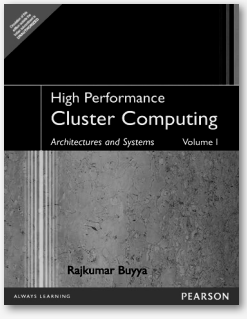
E-Book Available

Sankaran Prithviraj

ISBN: **9789332537606** | Pages: **216** | Year: **2015**

About the book

This book has been written from a practical perspective with case studies being used to explain most of the concepts for the benefit of IT professionals who engineer, architect or design cloud SaaS. Technical leads, architects, designers, software engineers and softwaredevelopers also stand to benefit from this book.



High Performance Cluster Computing Vol 1

Rajkumar Buyya

ISBN: **9788131716939** | Pages: **881** | Year: **2007**

About the book

A comprehensive guide to state-of-the art clusters technology for professionals and graduate-level CS students. Covers hardware as well as software issues, including topics such as: active messages and lightweight protocols, message passing systems. Cluster computers can deliver better performance than traditional mainframes and super computers at a much lower hardware cost.

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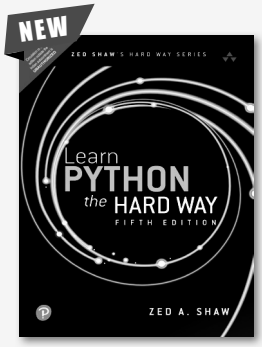
PYTHON



Learn Python the Hard Way, 5e

Zed A. Shaw

ISBN: **9789361599170** | Pages: **348** | Year: **2024**

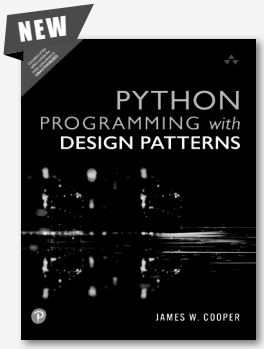
E-Book Available

About the book

Zed Shaw has created the world's most reliable system for learning Python. Follow it and you will succeed–just like the millions of beginners Zed has taught to date! You bring the discipline, persistence, and attention; the author supplies the masterful knowledge you need to succeed. In Learn Python the Hard Way, Fifth Edition, you'll learn Python by working through 60 lovingly crafted exercises. Read them. Type in the code. Run it. Fix your mistakes. Repeat. As you do, you'll learn how a computer works, how to solve problems, and how to enjoy programming . . . even when it's driving you crazy.

Features

- Total beginners with zero programming experience Junior developers who know one or two languages Returning professionals who haven't written code in years Aspiring Data Scientists or academics who need to learn to code Seasoned professionals looking for a fast, simple crash course in Python for Data Science



Python Programming with Design Patterns

James W. Cooper

E-Book Available

ISBN: **9789361594564** | Pages: **352** | Year: **2024**

About the book

To write clean, efficient, maintainable code, developers everywhere turn to design patterns. Now there's a Python-specific patterns guide that's friendly and practical enough for every Python developer, regardless of experience. Best-selling patterns author James W. Cooper presents visual, example-driven explanations of 23 proven patterns for writing superior object-oriented code. Through clear and intuitive code samples, he introduces modern techniques for creating Python objects that interact effectively in powerful, flexible programs. Python newcomers–including those moving from other languages–will find a succinct introduction designed to get them up to speed fast.

Features

- Review the essentials of Python objects and visual programming Learn what design patterns are, and how they help you write better code Use creational patterns to enhance flexibility and avoid unnecessary complexity Apply structural patterns to ensure that program elements work together well in large programs Optimize communication between objects with behavioral patterns

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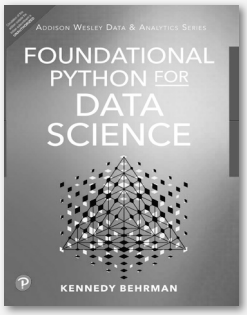


Foundational Python for Data Science

Kennedy Behrman

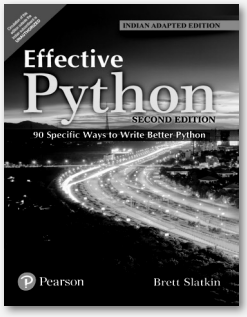
ISBN: **9788119847327** | Pages: **252** | Year: **2023**

About the book

Data science and machine learning—two of the worlds hottest fields—are attracting talent from a wide variety of technical, business, and liberal arts disciplines. Python, the world's #1 programming language, is also the most popular language for data science and machine learning. This is the first guide specifically designed to help millions of people with widely diverse backgrounds learn Python so they can use it for data science and machine learning. Leading data science instructor and practitioner Kennedy Behrman first walks through the process of learning to code for the first time with Python and Jupyter notebook, then introduces key libraries every Python data science programmer needs to master. Once you've learned these foundations, Behrman introduces intermediate and applied Python techniques for real-world problem-solving.

Features

- Master Google colab notebook Data Science programming
- Manipulate data with popular Python libraries such as: pandas and numpy
- Apply Python Data Science recipes to real world projects
- Learn functional programming essentials unique to Data Science



Effective Python, 2e

Brett Slatkin

ISBN: **9789356061620** | Pages: **424** | Year: **2022**

About the book

Effective Python aims to provide the reader with an understanding of the "Pythonic" way of writing programs: the best way to use Python. New programmers will learn the best practices of Python's features. Experienced programmers will learn how to embrace the strangeness of a new tool with confidence.

Features

- Includes Python best practices, patterns, shortcuts, and "pythonic" idioms you won't find anywhere else
- Covers Python algorithms, objects, concurrency, collaboration, built-in modules, and much more
- Guides you to a far deeper understanding of the Python language, so you know why its unique idioms and rules of thumb make sense
- Follows the enormously popular "Effective" format proven in Scott Meyers' classic Effective C++

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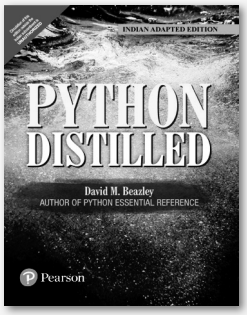


Python Distilled

David M. Beazley

ISBN: **9789356063693** | Pages: **308** | Year: **2022**

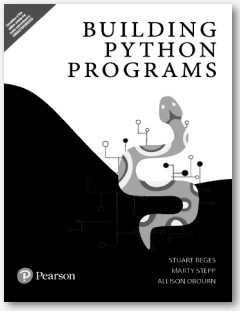
About the book

Focusing solely on the latest versions of Python (3.5 and higher), Python Distilled, from Beazley, returns to the roots of his classic Python Essential Reference: it is a concise, but powerfully useful book on effective Python programming. However, rather than trying to document everything, Beazley now focuses on the truly essential. In so doing, he reflects all he has learned through years of teaching Python to scientists, engineers, and software professionals, writing software libraries, and pushing the envelope of what Python makes possible.

Python Distilled covers abstraction techniques, program structure, data, functions, objects, modules, and other topics selected to serve programmers working on Python projects of any size. Beazley never forgets that productivity is not enough: programming ought to capture the magic that lives inside the computer. It should be fun, too.

Features

- Reflects modern Python programming idioms for Python 3.5 and beyond
- Offers practical coverage of the most valuable advances, including generators, coroutines, decorators, and metaclasses of modern Python
- Provides expanded coverage of modern library modules including asyncio, enum, and concurrent
- Thoroughly illuminates systems programming topics including OS interfaces, concurrent, and network programming
- Provides updated code examples utilizing forward-looking Python programming style



Building Python Programs

Stuart Reges | Marty Stepp | Allison Obourn

ISBN: **9789390394203** | Pages: **834** | Year: **2022**

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About the book

The authors of the long successful title, Building Java Programs, bring their proven and class-tested, back-to-basics strategy to teaching Python programming for the first time in Building Python Programs. Their signature layered approach introduces programming fundamentals first, with new syntax and concepts added over multiple chapters. Object-oriented programming is discussed only after students have developed a basic understanding of Python programming. This newly published textfocuses on problem solving with an emphasis on algorithmic thinking and is appropriate for the two-semester sequence in introductory computer science.

Features

- The authors' uniquely layered approach
- A thorough discussion of topics
- The text focuses on showing good coding style
- Provide a focus on problem solving and an emphasis on algorithmic thinking.
- The focus on problem solving
- An emphasis on algorithmic thinking

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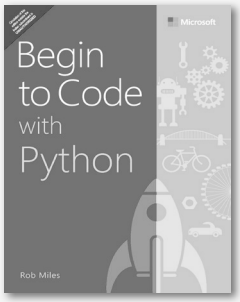

Begin to Code with Python, 1/e

Rob Miles

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ISBN: **9789390531912** | Pages: **532** | Year: **2022**

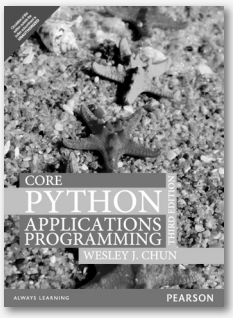
About the book

Easy, friendly, and you're in control! Learn how to...

Get, install, and use powerful free tools to create modern Python programs Learn key concepts from 170 sample programs, and use them to jumpstart your own Discover exactly what happens when a program runs Approach program development with a professional perspective Learn the core elements of the Python language Build more complex software with classes, methods, and objects Organize programs so they're easy to build and improve Capture and respond to user input Store and manipulate many types of real-world data Define custom data types to solve specific problems Create interactive games that are fun to play Build modern web and cloud-based applications Use pre-built libraries to quickly create powerful software

Features

- The latest title in a new series of full-color programming books, designed from the ground up to empower today's beginners
- Offers a creative, hands-on approach to help students learn Python
- Packed with "Make Something Happen" exercises to help students show off growing skills and build original code
- Reflects deep analysis of what hasn't worked in other beginner's guides, and innovative thinking about how to teach programming more effectively



Core Python Applications Programming, 3e

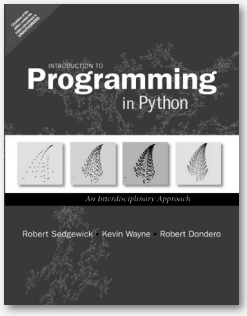
Wesley J. Chun

ISBN: **9789332555365** | Pages: **800** | Year: **2015**

E-Book Available

About the book

Python is an agile, robust, and expressive programming language that continues to build momentum. It combines the power of compiled languages with the simplicity and rapid development of scripting languages. This book has everything you need to become a versatile Python developer. You will be introduced to multiple areas of application development and gain knowledge that can be immediately applied to projects, and you will find code samples in both Python 2 and 3, including migration tips if that's on your roadmap too. Some snippets will even run unmodified on 2.x or 3.x.



Introduction to Programming in Python: An Interdisciplinary Approach

Robert Sedgewick, Kevin Wayne, Robert Dondero

ISBN: **9789332577435** | Pages: **792** | Year: **2016**

About the book

Introduction to Programming in Python: An Interdisciplinary Approach emphasizes interesting and important problems, not toy applications. The authors focus on Python's most useful and significant features, rather than aiming for exhaustive coverage that bores novices. All of this book's code has been crafted and tested for compatibility with both Python 2 and Python 3, making it relevant to every programmer and any course, now and for many years to come.

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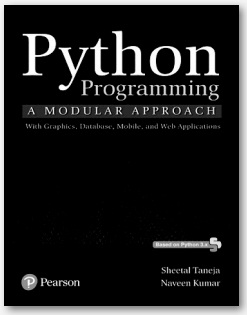


Python Programming: A modular approach

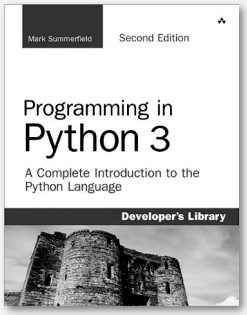
Sheetal Taneja / Naveen Kumar

ISBN: **9789332585348** | Pages: **606** | Year: **2018**

E-Book Available

About the book

Python Programming introduces one of the most rapidly evolving and preferred progamming language using the concept of modularity. One of the highlights of the text is its in-depth treatment of basic concepts. Advanced topics are discussed with multiple examples of applications from various fields such as database management, web and, mobile application development.



Programming in Python 3: A Complete Introduction to the Python Language

Mark Summerfield

ISBN: **9789352869176** | Pages: **648** | Year: **2018**

About the book

A Fully Revised Edition Featuring New Material on Coroutines, Debugging, Testing, Parsing, String Formatting, and More.

Python 3 is the best version of the language yet: It is more powerful, convenient, consistent, and expressive than ever before. Now, leading Python programmer Mark Summerfield demonstrates how to write code that takes full advantage of Python 3's features and idioms. Programming in Python 3, Second Edition, brings together all the knowledge you need to write any program, use any standard or third-party Python 3 library, and create new library modules of your own.

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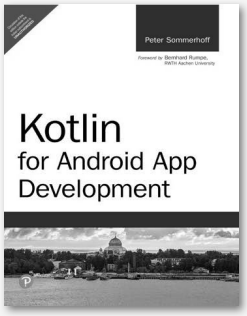
ANDROID 6.0 MARSHMALLOW



Kotlin for Android App Development

EXCLUSIVELY DISTRIBUTED BY GOEL'S COMPUTER HUT

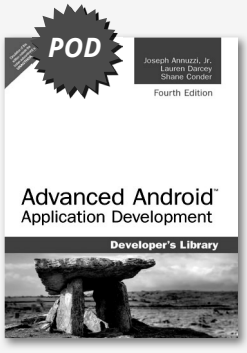
Peter Sommerhoff

ISBN: **9789353433833** | Pages: **432** | Year: **2019**

About the book

The Kotlin language brings state-of-the-art programming techniques and constructs to Android development. Kotlin for Android App Development will help students rapidly understand Kotlin's principles and techniques, apply Kotlin in production app development, integrate Kotlin with existing Java code, and plan a migration to Kotlin.

ANDROID 4.4 KITKAT



Advanced Android Application Development, 4e

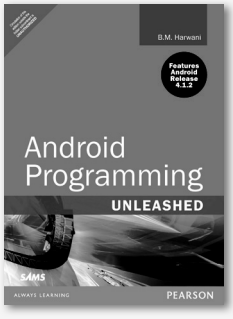
Joseph Annuzzi Jr

ISBN: **9789332552012** | Pages: **608** | Year: **2015**

About the book

Advanced Android Application Development, 4th Edition is the definitive guide to advanced commercial-grade Android development, updated for the latest Android SDK (KitKat). The book serves as a reference for the Android API. Advanced Android development topics are organized and presented in a clear and concise format.

ANDROID 4.1 JELLY BEAN



Android Programming Unleashed

B.M Harwani

ISBN: **9789332515840** | Pages: **696** | Year: **2014**

About the book

Android Programming Unleashed is the most comprehensive and technically sophisticated guide to best-practice Android development with today's powerful new versions of Android: 4.1 (Jelly Bean) and 4.0.3 (Ice Cream Sandwich). Offering the exceptional breadth and depth developers have come to expect from the Unleashed series, it covers everything programmers need to know to develop robust, high-performance Android apps that deliver a superior user experience.

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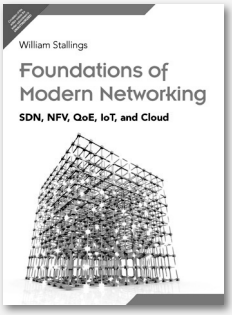
COMPUTER NETWORKS



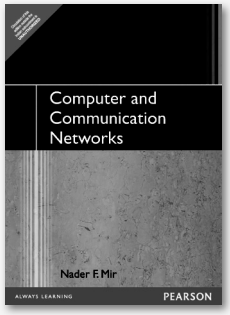
Foundations of Modern Networking: SDN, NFV, QoE, IoT, and Cloud

William Stallings

ISBN: **9789332573864** | Pages: **568** | Year: **2016**

About the book

SDN, NFV, and QoE: Foundations of Modern Networking is a comprehensive and unified survey of modern networking technology and applications for today's technical professionals, business professionals, and students. Using the same teaching approach that has earned him 13 "Computer Science Textbook of the Year" Awards, Dr. Stallings imparts a thorough understanding of SDN technology: how it works, how it is deployed, and how enterprises of all sizes can use it to deliver superior Quality of Service (QoS) and Quality of Experience (QoE).



Computers and Communication Networks

Nader F. Mir

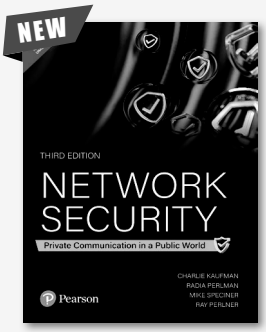
E-Book Available

ISBN: **9788131715437** | Pages: **650** | Year: **2007**

About the book

Many books in this space are outdated. Dr. Mir addresses the shortcomings in the professional and higher education texts by offering balanced coverage of all topics using extensive case studies and examples. This book covers fundamental and advanced topics in networking suitable for researchers and students. It also covers topics that competitors lack including multicasting protocols, switching systems, high-speed protocols, sensor/mesh networks, WiMax, and Zigbee. Network architecture books, especially the popular ones, are often criticized for being afraid of the math that is involved in design and not offering enough practical scenario based information (e.g. case studies). Computer and Communication Networks has 15 case studies, 250 exercises and examples, and 390 equations/algorithms.

CRYPTOGRAPHY & NETWORK SECURITY



Network Security: Private Communications in a Public World, 3e

Charlie Kaufman | Radia Perlman | Mike Speciner | Ray Perlner

ISBN: **9788196874339** | Pages: **456** | Year: **2024**

E-Book Available

About the book

Widely regarded as the most comprehensive yet comprehensible guide to network security and cryptography, the previous editions of Network Security received critical acclaim for lucid and witty explanations of the inner workings of cryptography and network security protocols. In this edition, the authors have significantly updated and revised the previous content, and added new topics that have become important. This book explains sophisticated

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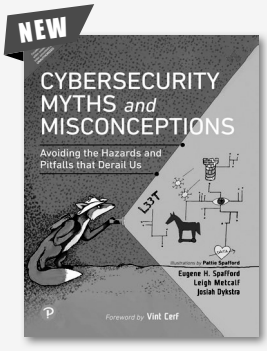
concepts in a friendly and intuitive manner. For protocol standards, it explains the various constraints and committee decisions that led to the current designs. For cryptographic algorithms, it explains the intuition behind the designs, as well as the types of attacks the algorithms are designed to avoid. It explains implementation techniques that can cause vulnerabilities even if the cryptography itself is sound. Homework problems deepen your understanding of concepts and technologies, and an updated glossary demystifies the field's jargon. Network Security, Third Edition will appeal to a wide range of readers, from those who design and evaluate security systems to system administrators and programmers who want a better understanding of this important field. It can also be used as a textbook at the graduate or advanced undergraduate level.

Features

- Includes real-time communication (SSL/TLS, SSH, IPsec)
- Discusses new applications such as electronic money, blockchains etc.
- New cryptographic techniques like homomorphic encryption and secure multiparty computation included
- New edition of the classic text on computer security from legendary pioneers in network security
- Thoroughly re-written to reflect contemporary issues in cybersecurity
- Friendly, intuitive, rigorous, comprehensive, and practical
- Includes detailed sections on cryptography, authentication, connection protocols, and network applications
- Contains new coverage of quantum computing, post-quantum algorithms, electronic money, homomorphic encryption, and secure multiparty communication



Cybersecurity Myths and Misconceptions: Avoiding the Hazards and Pitfalls that Derail Us

Eugene H. Spafford, Leigh Metcalf, Josiah Dykstra

E-Book Available

ISBN: **9789361598777** | Pages: **416** | Year: **2024**

About the book

Cybersecurity is fraught with hidden and unsuspected dangers and difficulties. Despite our best intentions, there are common and avoidable mistakes that arise from folk wisdom, faulty assumptions about the world, and our own human biases. Cybersecurity implementations, investigations, and research all suffer as a result. Many of the bad practices sound logical, especially to people new to the field of cybersecurity, and that means they get adopted and repeated despite not being correct. For instance, why isn't the user the weakest link? In Cybersecurity Myths and Misconceptions: Avoiding the Hazards and Pitfalls that Derail Us, three cybersecurity pioneers don't just deliver the first comprehensive collection of falsehoods that derail security from the frontlines to the boardroom; they offer expert practical advice for avoiding or overcoming each myth.

Features

- Read over 175 common misconceptions held by users, leaders, and cybersecurity professionals, along with tips for how to avoid them. Learn the pros and cons of analogies, misconceptions about security tools, and pitfalls of faulty assumptions. What really is the weakest link? When aren't "best practices" best? Discover how others understand cybersecurity and improve the effectiveness of cybersecurity decisions as a user, a developer, a researcher, or a leader. Get a high-level exposure to why statistics and figures may mislead as well as enlighten. Develop skills to identify new myths as they emerge, strategies to avoid future pitfalls, and techniques to help mitigate them.

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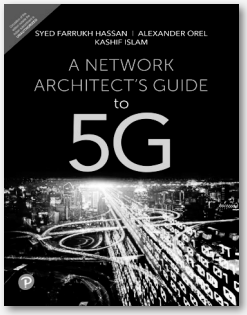


A Network Architect's Guide to 5G

Syed Farrukh Hassan, Alexander Orel, Kashif Islam

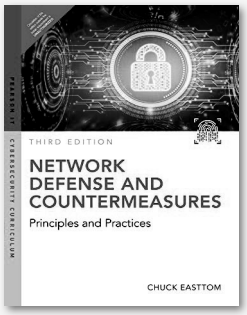
ISBN: **9788119847518** | Pages: **456** | Year: **2023**

About the book

As 5G transforms mobile usage and services, network professionals will need to significantly evolve their transport network architectures towards greater sophistication and stronger integration with radio networks, and facilitate transition towards cloud-native 5G mobile core. Until now, however, most 5G guides have foregrounded RF/radio and mobile core innovations, not its implications for data networks. A Network Architect's Guide to 5G fills the gap, giving network architects, designers, and engineers essential knowledge for designing and planning their own 5G networks. Drawing on decades of experience with global service providers and enterprise networks, the authors illuminate new and evolving network technologies necessary for building 5G-capable networks, such as segment routing, network slicing, timing and synchronization, edge computing, distributed data centers, integration with public cloud, and more. They explain how 5G blurs boundaries between mobile core, radio access, and transport, as well as the changes in the composition of a traditional cell site with the adoption of Open and Virtualized RAN resulting in a transition to mobile xHaul. Every chapter builds on earlier coverage, culminating in a "big picture" presentation of a complete 5G network design.

Features

- Understand the evolution of mobile technologies over the generation leading to 5G's foundational concepts and principles.
- Explore 5G changes to Radio Access Networks (RAN), the Mobile Core, Mobile Transport, and the need for tighter integration between them.
- Use Segment Routing to architect simplified, SDN-capable networks, and enable network slicing for 5G.
- Rethink transport design to incorporate Far-Edge, Edge, and public-cloud based data centers augmenting centralized DCs to support distributed peering and Multi-access Edge Compute.
- Provide guidance to meet the criteria and requirements for various aspects of Fronthaul, Midhaul, and Backhaul architecture, such as transport protocol evaluation, latency consideration, routing design, QoS modeling, network device selection, and more.
- Forge a cohesive 5G network architecture by combining mobile communications principles with advanced transport technologies.



Network Defense and Countermeasures: Principles and Practices, 3e

William (Chuck) Easttom

ISBN: **9789389552881** | Pages: **544** | Year: **2019**

About the book

Network Defense and Countermeasures: Principles and Practices, Third Edition is designed to be the ideal one-volume gateway into the field of network defense. It brings together thoroughly updated coverage of all basic concepts, terminology, and issues, along with the practical skills essential to network defense. Drawing on his extensive experience as both an IT professional and instructor, Chuck Easttom thoroughly covers core topics such as practical applications of firewalls, intrusion detection systems, encryption fundamentals, operating system hardening, defending against virus attacks, Trojan horses and spyware, Ransomware, malware, security policies and security standards. Unlike many other authors, however, he also fully addresses more specialized issues, including cryptrography, industrial espionage and encryption - including public/ private key systems, digital signatures, and certificates.

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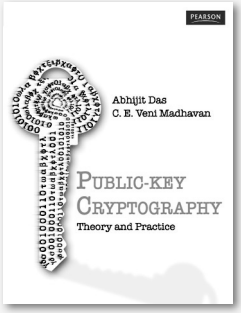


Public-Key Cryptography: Theory and Practice

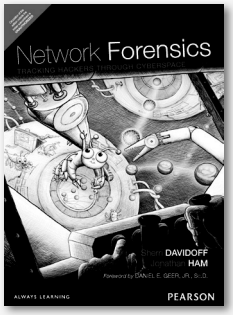
Abhijit Das, C. E. Veni Madhavan

ISBN: **9788131708323** | Pages: **584** | Year: **2009**

E-Book Available

About the book

Public-key Cryptography provides a comprehensive coverage of the mathematical tools required for understanding the techniques of public-key cryptography and cryptanalysis. Key topics covered in the book include common cryptographic primitives and symmetric techniques, quantum cryptography, complexity theory, and practical cryptanalytic techniques such as side-channel attacks and backdoor attacks.



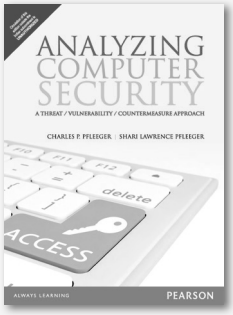
Network Forensics: Tracking Hackers through Cyberspace 1e

Sherri Davidoff, Jonathan Ham

ISBN: **9789332515888** | Pages: **576** | Year: **2013**

About the book

Learn to recognize hackers' tracks and uncover network-based evidence in Network Forensics: Tracking Hackers through Cyberspace . Carve suspicious email attachments from packet captures. Use flow records to track an intruder as he pivots through the network. Analyze a real-world wireless encryption-cracking attack (and then crack the key yourself). Reconstruct a suspect's web surfing history–and cached web pages, too–from a web proxy. Uncover DNS-tunneled traffic. Dissect the Operation Aurora exploit, caught on the wire.



Analyzing Computer Security

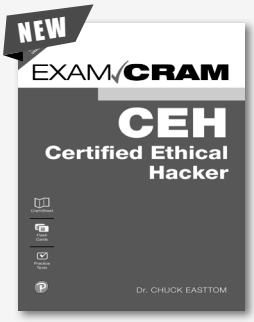
Charles P. Pfleeger

ISBN: **9789332517424** | Pages: **848** | Year: **2013**

About the book

In this book, the authors of the 20-year best-selling classic Security in Computing take a fresh, contemporary, and powerfully relevant new approach to introducing computer security. Organized around attacks and mitigations, the Pfleegers' new Analyzing Computer Security will attract students attention by building on the high-profile security failures they may have already encountered in the popular media. One step at a time, students progress from attack/problem/harm to solution/protection/mitigation, building the powerful real-world problem solving skills they need to succeed as information security professionals.

HACKING



Certified Ethical Hacker (CEH) Exam Cram

Chuck Easttom

ISBN: **9788119847181** | Pages: **440** | Year: **2023**

About the book

CEH Certified Ethical Hacker Exam Cram is the perfect study guide to help you pass the updated CEH exam. Dr. Chuck Easttoms expert real-world approach reflects both his expertise as one of the worlds leading cybersecurity practitioners and instructors, as well as test-taking insights he has gained from teaching CEH preparation courses worldwide, including courses taught directly for EC-Council.

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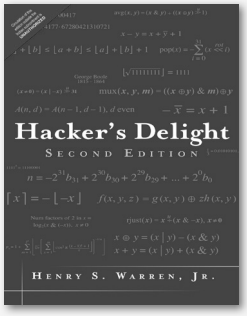
Easttom assumes no prior knowledge: his expert coverage of every exam topic can help readers with little ethical hacking experience to obtain the knowledge they need to succeed.

Features

- Covers all the critical information students need to know to score higher on the updated CEH exam
- Addresses all exam objectives associated with ethical hacking and penetration testing
- Assumes no prior knowledge: those without experience can obtain the real-world knowledge to succeed
- Designed to help students rapidly assess where they stand, and quickly master what they need to learn
- Includes test-taking strategies, time-saving tips, Exam Notes, and two full practice exams



Hacker's Delight, 2e

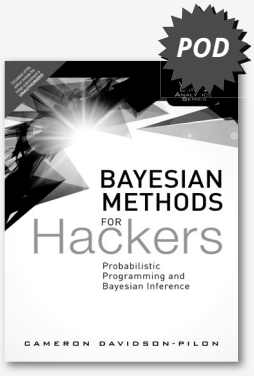
EXCLUSIVELY DISTRIBUTED BY GOEL'S COMPUTER HUT

John Baichtal

ISBN: **9789332540217** | Pages: **512** | Year: **2013**

About the book

In Hacker's Delight, Second Edition, Hank Warren once again compiles an irresistible collection of programming hacks: timesaving techniques, algorithms, and tricks that help programmers build more elegant and efficient software, while also gaining deeper insights into their craft. Warren's hacks are eminently practical, but they're also intrinsically interesting, and sometimes unexpected, much like the solution to a great puzzle. They are, in a word, a delight to any programmer who is excited by the opportunity to improve.



Bayesian Methods for Hackers

Cameron Davidson-Pilon

ISBN: **9789353063641** | Pages: **256** | Year: **2018**

About the book

The next generation of problems will not have deterministic solutions - the solutions will be statistical that rely on mountains, or mounds, of data. Bayesian methods offer a very flexible and extendible framework to solve these types of problems. For programming students with minimal background in mathematics, this example-heavy guide emphasizes the new technologies that have allowed the inference to be abstracted from complicated underlying mathematics.

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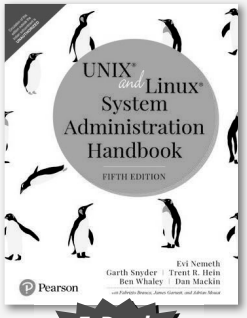
UNIX



E-Book Available

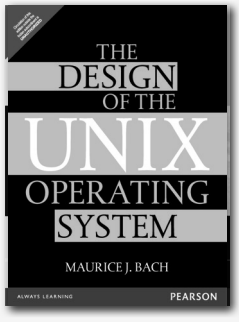
UNIX and Linux Handbook, 5e

Evi Nemeth | Trent R. Hein | Garth Snyder | Ben Whaley

ISBN: **9789353062859** | Pages: **1136** | Year: **2020**

About the book

UNIX and Linux System Administration Handbook, Fifth Edition is today's definitive guide to installing, configuring and maintaining any Unix or Linux system - including the systems that provide core Internet and cloud infrastructure. Now fully updated for today's Linux distributions and cloud environments, it details best practices for every facet of system administration, including storage management, network design and administration, web hosting and scale-out, automation, configuration management, performance analysis, virtualization, DNS, security, management of IT service organizations, and much more. For modern system and network administrators, this edition contains indispensable new coverage of cloud deployments, continuous delivery, Docker and other containerization solutions, and much more.



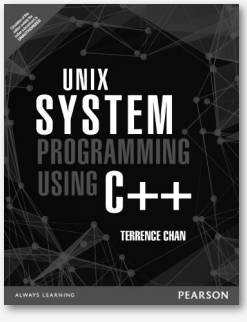
Design of the UNIX Operating System

Maurice J. Bach

ISBN: **9789332549579** | Pages: **486** | Year: **2015**

About the book

This book describes the internal algorithms and the structures that form the basis of the UNIX operating system and their relationship to the programmer interface. The system description is based on UNIX System V Release 2 supported by AT&T, with some features from Release 3.



UNIX System Programming Using C++

Terrence Chan

ISBN: **9789332549975** | Pages: **616** | Year: **2015**

About the book

The purpose of this text is to teach UNIX/C programmers advanced C programming techniques in the UNIX/POSIX environment, so that they will understand the advanced features of the ANSI-C language, become familiar with C library functions and the UNIX system calls and become familiar with the ANSI-C and POSIX standards.

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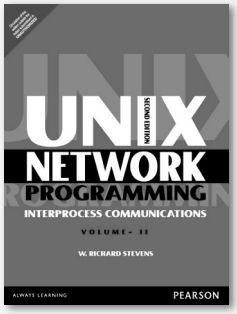

UNIX Network Programming, Volume 2: Interprocess Communications 2e

W. Richard Stevens

ISBN: **9789332549708** | Pages: **576** | Year: **2015**

About the book

Well-implemented interprocess communications (IPC) are key to the performance of virtually every non-trivial UNIX program. In UNIX Network Programming, Volume 2, Second Edition, legendary UNIX expert W. Richard Stevens presents a comprehensive guide to every form of IPC, including message passing, synchronization, shared memory, and Remote Procedure Calls (RPC). Stevens begins with a basic introduction to IPC and the problems it is intended to solve. Step-by-step you'll learn how to maximize both System V IPC and the new Posix standards, which offer dramatic improvements in convenience and performance.

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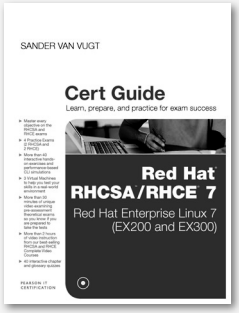
LINUX



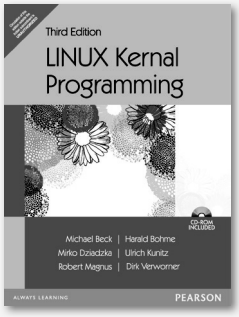
Red Hat RHCSA/RHCE 7 Cert Guide: Red Hat Enterprise Linux 7 (EX200 and EX300)

Sander van Vugt

ISBN: **9789332571778** | Pages: **1008** | Year: **2016**

About the book

Red Hat RHCE®/RHCSA™ 7 Cert Guide has a single goal: to help students pass the newest versions of Red Hat's RHCE and RHCSA exams for Red Hat Enterprise Linux 7. The most comprehensive and time-efficient RHCE 7/RHCSA 7 prep guide available, it's an extraordinarily cost-effective alternative to expensive training. Written by a leading Red Hat trainer, consultant, and speaker, it presents focused, straight-to-the-point coverage of every exam topic.



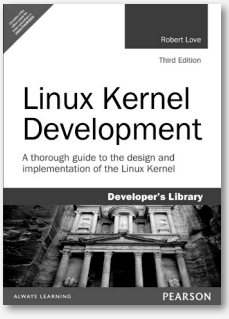
Linux Kernel Programming, 3e

Michael Beck, Harald Bohme, Mirko Dziadzka, Ulrich Kunitz, Robert Magnus, Claus Schroter, Dirk Verworner

ISBN: **9788177589566** | Pages: **496** | Year: **2002**

About the book

A brand-new edition of the comprehensive Linux kernel reference with 40% of the material revised. The student will learn how a modern multi-tasking operating system will work, and will understand how the open Linux sources work. It covers memory management, interprocess communication, file systems, device drivers, and networking. The authors cover the basic foundations of the Linux OS, going under the hood of Linux. The book is targeted to intermediate and advance Linux students, who need to know how the Linux kernel interface is implemented.



Linux Kernel Development, 3e

Robert Love

ISBN: **9788131758182** | Pages: **440** | Year: **2010**

E-Book Available

About the book

Linux Kernel Development details the design and implementation of the Linux kernel, presenting the content in a manner that is beneficial to those writing and developing kernel code, as well as to programmers seeking to better understand the operating system and become more efficient and productive in their coding. The book details the major subsystems and features of the Linux kernel, including its design, implementation, and interfaces. It covers the Linux kernel with both a practical and theoretical eye, which should appeal to readers with a variety of interests and needs.

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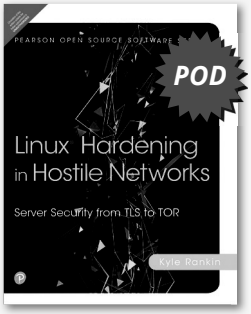

Linux Hardening in Hostile Networks

Kyle Rankin

ISBN: **9789353061777** | Pages: **272** | Year: **2018**

About the book

Rankin begins with a user-oriented guide to safeguarding your own personal data with PGP, Off-the-Record Messaging (OTR), Tor, and the Tails “amnesic incognito” live Linux distribution. Next, he guides you through setting up secured versions of the services you manage every day, including web, email, and database servers that communicate over TLS locked-down DNS servers with DNSSEC Tor servers, and hidden services.

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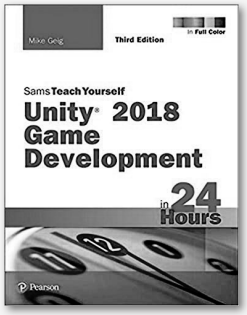


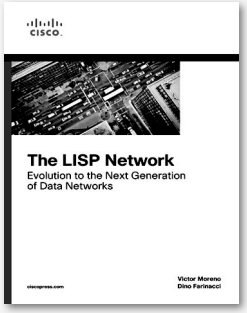
Unity 2018 Game Development in 24 Hours, Sams Teach Yourself, 3e

Mike Geig

ISBN: **9789389552362** | Pages: **464** | Year: **2019**

About the book

In just 24 hours, readers will learn how to get started developing games with Unity. The approach is hands-on and modular. Each chapter covers an essential component of the game development process. Topics are illustrated with sample projects. The book also concludes with a complete game project.



LISP Network, The: Evolution to the Next-Generation of Data Networks

Victor Moreno | Dino Farinacci

ISBN: **9788194282532** | Pages: **188** | Year: **2019**

E-Book Available

About the book

The LISP Network is the first comprehensive, in-depth guide to LISP concepts, architecture, techniques, behavior, and applications. Co-authored by LISP co-creator Dino Farinacci and Victor Moreno—co-developer of the Cisco LISP implementation—it will help students identify the opportunities and benefits of deploying LISP in any data center, campus and branch access, WAN edge, or service provider core network.

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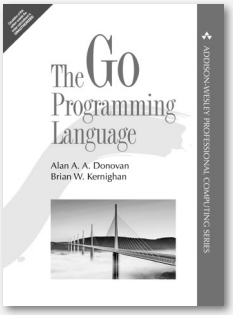

The Go Programming Language

Alan A. A. Donovan, Brian W. Kernighan

ISBN: **9789332569713** | Pages: **400** | Year: **2016**

About the book

The Go Programming Language is the authoritative resource for any programmer who wants to learn Go. It shows how to write clear and idiomatic Go to solve real-world problems. The book does not assume prior knowledge of Go nor experience with any specific language, so you'll find it accessible whether you're most comfortable with JavaScript, Ruby, Python, Java, or C++.

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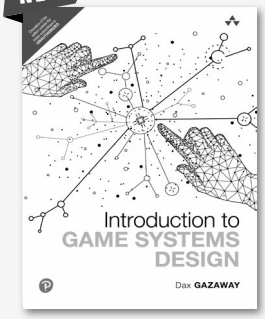

Introduction to Game Systems Design

E-Book Available

Dax Gazaway

ISBN: **9789361593222** | Pages: **384** | Year: **2024**

About the book

As games grow more complex and gamers' expectations soar, the discipline of game systems design becomes ever more important. Game systems designers plan a game's rules and balance, its characters' attributes, most of its data, and how its AI, weapons, and objects work and interact. Introduction to Game Systems Design is the first complete beginner's guide to this crucial discipline. Writing for all aspiring game professionals, even those with absolutely no experience, leading game designer and instructor Dax Gazaway presents a step-by-step, hands-on approach to designing game systems with industry-standard tools. Drawing on his experience building AAA-level game systems (including games in the Star Wars and Marvel franchises),

Features

- Exploring the essentials of game design and its emerging subdisciplines Asking the essential questions at the heart of all design Getting started with modern game system design tools, including the spreadsheets most professionals now use Creating systems and data from a blank page Populating and quantifying a world of data into a game Tuning and balancing game systems Testing game systems and data Leveraging communication, psychology, and rewards within your games Balancing game probability within systems

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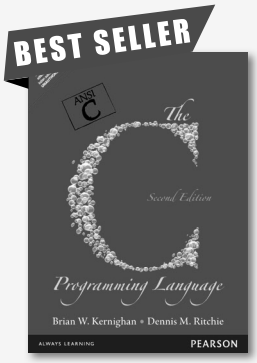


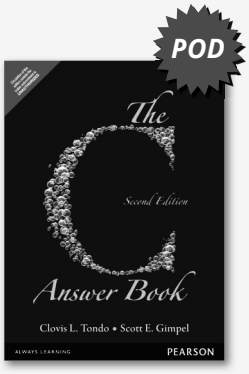
The C Programming Language 2e

Brian W. Kernighan

ISBN: **9789332549449** | Pages: **284** | Year: **2015**

About the book

This second edition describes C as defined by the ANSI standard. This book is meant to help the reader learn how to program in C. The book assumes some familiarity with basic programming concepts like variables, assignment statements, loops, and functions. A novice programmer should be able to read along and pick up the language.



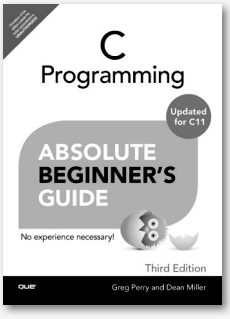
The C Answer Book

Clovis L. Tondo

ISBN: **9789332549739** | Pages: **216** | Year: **2015**

About the book

This tutorial companion to the second edition of The C Programming Language offers complete solutions and full explanations to all the exercises found in Kernighan and Ritchie's book. Careful study of The C Answer Book used in conjunction with The C Programming Language will help the reader understand C and teach him good C Programming skills. The authors in their Preface write You cannot learn a programming language by only reading the language constructs. It also requires programming, writing your own code and studying those of others. We use good features of the language, modularize our code, make extensive use of library routines, and format our programs to help the reader see the logical flow.



C Programming Absolute Beginner's Guide, 3e

E-Book Available

Greg Perry

ISBN: **9789332539570** | Pages: **352** | Year: **2014**

About the book

C Programming Absolute Beginner's Guide is the fastest way to get comfortable and productive with C11. This friendly, practical book will help the reader do exactly what they want, one incredibly clear and easy step at a time. World-renowned tech tutorial author Greg Perry reveals C11's power, and helps the reader quickly take advantage of it. He provides step-by-step instructions for every task requiring more than one step, many code samples, and screenshots guiding through complex processes. This guide including how to organize a program, store and display data, and work with variables, operators, I/O, pointers, arrays, and functions. Perry presents updated information on the latest C compilers for Windows, OS X, and Linux, as well as valuable new material on C programming for mobile and game development.

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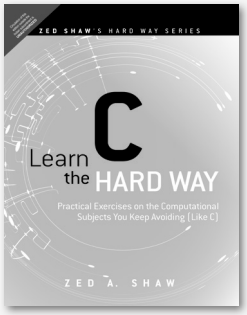

Learn C the Hard Way : Practical Exercises on the Computational Subjects You Keep Avoiding (Like C)

Zed A Shaw

ISBN: **9789353065720** | Pages: **384** | Year: **2019**

About the book

If your students know any language at all, Zed A. Shaw's Learn C the Hard Way can help them get started fast with modern C programming. This book/CD package is called "The Hard Way," but it's really quite easy: it just requires discipline, practice, and persistence. Shaw teaches how to write modern, clean, clear C code through dozens of brilliantly-crafted exercises, most on two pages. Shaw offers plenty of extra help through 5+ full hours of CD-based teaching video. Nothing important comes without discipline, practice, and persistence.

Features

- By top blogger and outstanding teacher Zed Shaw
- CD contains 5+ hours of teaching video
- Refined through Shaw's years of instructional work online, where he attracts thousands of visitors per day: an older online version of this book earned 500K+ downloads"

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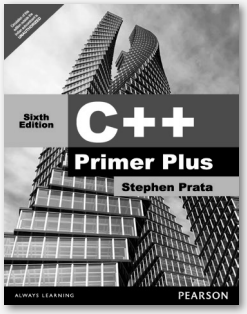


C++ Primer Plus, 6e

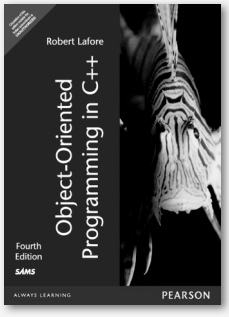
E-Book Available

Stephen Prata

ISBN: **9789332546189** | Pages: **1264** | Year: **2015**

About the book

C++ Primer Plus is an approachable yet technically rigorous guide to C++ for programmers new to the language. This new edition updates it with the most important features added to the C++11 standard, while keeping the style and approach which have made the previous editions so popular. It contains extensive new code samples and exercises, for both classroom use and self-study.



Object Oriented Programming in C++, 4e

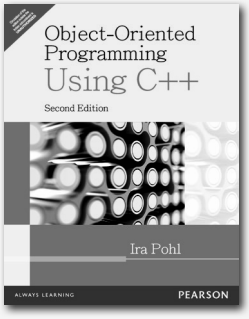
E-Book Available

Robert Lafore

ISBN: **9788131722824** | Pages: **1040** | Year: **2008**

About the book

Object Oriented Programming in C++ is a comprehensive solution for teaching object-oriented programming using the features of ANSI/ISO C++. It covers the basic concepts of object-oriented programming, why those concepts exist and how to make them work effectively. The Fourth Edition is updated and revised to include more UML coverage, inter-file communication, and use-cases analysis to explain software design.



Object Oriented Programming Using C++, 2e

Ira Pohl

ISBN: **9788131703915** | Pages: **576** | Year: **2002**

About the book

Object-Oriented Programming Using C++, Second Edition provides the experienced programmer with a clear and thorough introduction to the object-oriented paradigm using ANSI C++. Each chapter introduces you to specific C++ languages features that support object-oriented programming concepts, including the most recent additions to the language such STL, namespaces, RTTI and boot type

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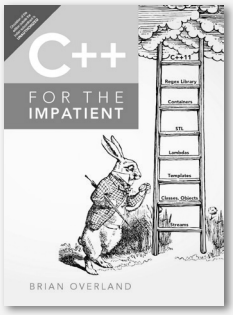


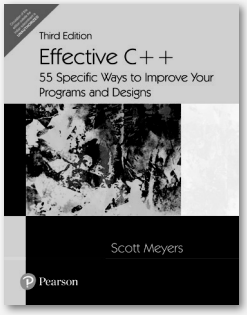
C++ for the Impatient

Brian Overland

ISBN: **9789332539228** | Pages: **720** | Year: **2014**

About the book

C++ for the Impatient offers both the quickest way for busy programmers to learn the latest features of the C++ language and a handy resource for quickly finding answers to specific language questions. Designed to give you the most accurate and up-to-date information you require fast and to the point, this book is also an essential guide to the new C++11 standard, including advanced uses of the C++ standard library. C++ for the Impatient is an ideal resource for anyone who needs to come up to speed quickly on C++11. Whether or not it's your first C++ book, it will be one you come back to often for reliable answers.



Effective C++: 55 Specific Ways to Improve Your Programs and Designs, 3e

Scott Meyers

ISBN: **9788131714805**

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GOEL'S COMPUTER HUT

About the book

Effective C++ 3/e is a complete update of Effective C++ and Effective C++ 2/e. Like its predecessors, 3/e has 55 guidelines which contain better, more effective ways to write code, backed by specific examples. The second edition published in 1997, and was basically a face-lift of the first edition, keeping most of the same elements, and seven years later is still selling well. Now, Meyers has dramatically rejuvenated the material, including more than 50% brand-new material. Meyers began this edition by asking himself, "What are the 55 most important pieces of advice for practicing C++ programmers in 2005?" He also asked thousands of past users of his books this same question. This resulted in a completely new book. New material includes use of UML notation, thread safety, exception safety, design patterns, and templates. Any older material has been revitalized to reflect new ideas and strides in C++ development.

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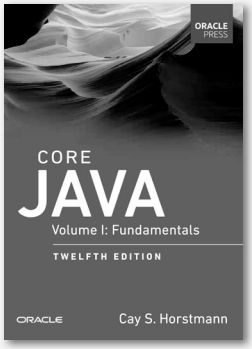


Core Java, Vol. 1: Fundamentals, 12e

Cay S. Horstmann

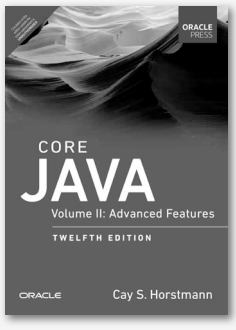
ISBN: **9788119847334** | Pages: **802** | Year: **2023**

About the book

Core Java, Volume I: Fundamentals, Twelfth Edition, is the definitive guide to writing robust, maintainable code. Whatever version of Java students are using--up to and including Java 17--this book will help them achieve a deep and practical understanding of the language and APIs. With hundreds of realistic examples, Cay S. Horstmann reveals the most powerful and effective ways to get the job done. This book is written for readers with prior programming experience who are looking for in-depth coverage of the Java language and platform. Students will learn about all language features in detail, including the recent improvements in Java 17. The applied chapters and code examples cover the most up-to-date capabilities of the vast Java library. This first of two volumes offers in-depth coverage of fundamental Java programming, including object-oriented programming, generics, collections, lambda expressions, concurrency, and functional programming. Classic material for Swing UI programming is included for those who need it. This edition's new content covers text blocks, switch enhancements, records, pattern matching for instance of, sealed classes, and more.

Features

- Master foundational techniques, idioms, and best practices for writing superior Java code
- Leverage the power of interfaces, lambda expressions, and inner classes
- Harden programs through effective exception handling and debugging
- Write safer, more reusable code with generic programming
- Improve performance and efficiency with Java's standard collections
- Build cross-platform GUIs with the Swing toolkit
- Fully utilize multicore processors with Java's improved concurrency



Core Java, Vol. 2: Advanced Features, 12e

Cay S. Horstmann

ISBN: **9788119847433** | Pages: **866** | Year: **2023**

About the book

Core Java, Volume II: Advanced Features, Twelfth Edition, has been revised to cover the new features and enhancements in the Java 17 long-term support release. As always, all chapters have been completely updated, outdated material has been removed, and the new APIs are covered in detail. This volume focuses on the advanced topics that a programmer needs to know for professional software development and includes authoritative coverage of enterprise programming, networking, databases, security, modularization, internationalization, code processing, and native methods, as well as complete chapters on the Streams, XML, and Date and Time APIs. In addition, the chapter on Advanced Swing

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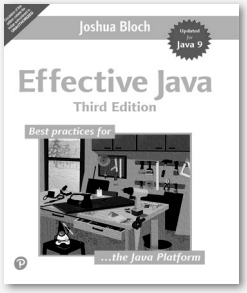
and Graphics covers techniques that are applicable to both client-side user interfaces and server-side generation of graphics and images. Cay S. Horstmann clearly explains sophisticated new features with depth and completeness and demonstrates how to use them to build professional-quality applications. Horstmann's thoroughly tested sample code reflects modern Java style and best practices. The examples are carefully crafted for easy understanding and maximum practical value, so you can rely on them to jump-start your own programs.

Features

- Master advanced techniques, idioms, and best practices for writing reliable Java code
- Make the most of enhanced Java I/O APIs, object serialization, and regular expressions
- Efficiently connect to network services, implement servers and the new HTTP/2 client, and harvest web data
- Process code via the Scripting and Compiler APIs, and use annotations to generate code and files
- Deepen your understanding of the Java Platform Module System, including recent refinements
- Leverage the Java security model, user authentication, and the security library's cryptographic functions
- Preview powerful new APIs for accessing "foreign" functions and memory



Effective Java, 3e

Joshua Bloch

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ISBN: **9789356060661** | Pages: **416** | Year: **2022**

About the book

Since this Jolt-award winning classic was last updated in 2008 (shortly after Java 6 was released), Java has changed dramatically. The principal enhancement in Java 8 was the addition of functional programming constructs to Java's object-oriented roots. Java 7, 8, and 9 also introduced language features, such as the try-with-resources statement, the diamond operator for generic types, default and static methods in interfaces, the @SafeVarargs annotation, and modules. New library features include pervasive use of functional interfaces and streams, the java.time package for manipulating dates and times, and numerous minor enhancements such as convenience factory methods for collections.

In this new edition of Effective Java, Bloch updates the work to take advantage of these new language and library features, and provides specific best practices for their use. Java's increased support for multiple paradigms increases the need for best-practices advice, and this book delivers.

Features

- Presents the most practical, authoritative guidelines available for writing efficient, well-designed programs for the Java platform
- Completely updated for Java releases since 2008
- Java programming paradigm has evolved significantly in last 5 years and new material covered in this edition is critical to modern Java programming
- New to This Edition
- Thoroughly revised and updated to cover language and library features added in Java 7, 8, and 9, and recent trends in Java programming. Many new items have been added, including a chapter devoted to lambdas and streams. New topics include:
  - Functional interfaces, lambda expressions, method references, and streams
  - Default and static methods in interfaces
  - Type inference, including the diamond operator for generic types
  - The @SafeVarargs annotation

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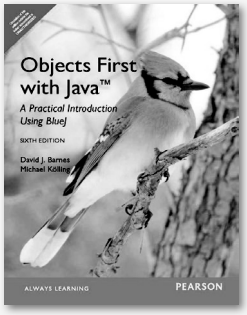
- The try-with-resources statement
- New library features such as java.time and the convenience factory methods for collections



Objects First with Java: A Practical Introduction Using BlueJ, 6e

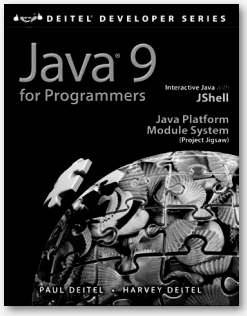
David J. Barnes

ISBN: **9789389552300** | Pages: **660** | Year: **2019**

E-Book Available

About the book

Objects First with Java: A Practical Introduction is an introduction to object-oriented programming for beginners. The main focus of the book is general object-oriented and programming concepts from a software engineering perspective.



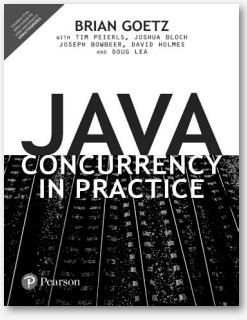
Java 9 for Programmers, 4e

Harvey M. Deitel, Paul J. Deitel

ISBN: **9789352866540** | Pages: **1120** | Year: **2018**

About the book

Written for programmers with a background in another high-level language, this book applies the Deitel signature live-code approach to teaching programming and explores the Java® 9 language and APIs in depth. The book presents concepts in fully tested programs, complete with code walkthroughs, syntax shading, code highlighting and program outputs. It features hundreds of complete Java 9 programs with thousands of lines of proven code, and hundreds of software-development tips that will help you build robust applications.



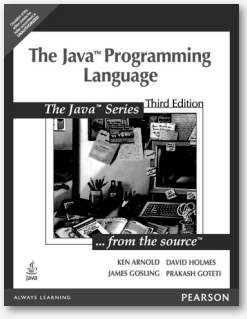
Java Concurrency in Practice

Brian Goetz, David Holmes, Doug Lea, Tim Peierls, Joshua Bloch, Joseph Bowbeer

ISBN: **9789332576520** | Pages: **368** | Year: **2017**

About the book

This book is a combination of concepts, guidelines, and examples intended to assist developers in the difficult process of understanding concurrency and its new tools in J2SE 5.0. Filled with contributions from Java gurus such as Josh Bloch, David Holmes and Doug Lea, this book provides any Java programmers with the basic building blocks they need to gain a basic understanding of concurrency and its benefits.



The Java Programming Language, 3e

Ken Arnold, James Gosling, David Holmes

ISBN: **9788131702215** | Pages: **712** | Year: **2008**

E-Book Available

About the book

Direct from the creators of the Java™ programming language, this Third Edition provides unique insights into why and how the language was designed and intended to be used. More advanced students will find this new edition to be a valuable reference, and will gain new insights into the subtleties of the language. Beginning and intermediate students will benefit from the valuable examples and clear explanations of language and library features.

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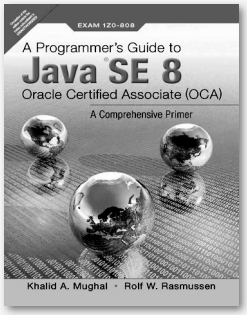


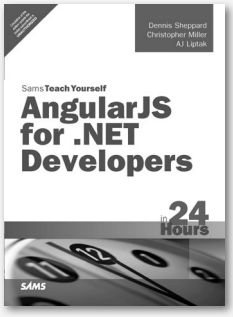
A Programmer's Guide to Java SE 8 Oracle Certified Associate (OCA)

Khalid A. Mughal, Rolf W. Rasmussen

ISBN: **9789332579378** | Pages: **680** | Year: **2017**

About the book

Unique among Java books, A Programmer's Guide to OCA Java SE 8 Certification, A Comprehensive Primer, Fourth Edition combines an integrated, expert guide to Java SE 8 with comprehensive review for Oracle's newest OCA certification exam. Khalid A. Mughal and Rolf W. Rasmussen have thoroughly revised this tutorial/reference/prep guide to reflect major changes in the exam, including its increased focus on analyzing code scenarios, not just individual language constructs. Mughal and Rasmussen thoroughly address each exam objective, reflecting the latest Java SE 8 features, API classes, and best practices for effective development.



AngularJS for .NET Developers in 24 Hours

Dennis Sheppard, Christopher Miller, AJ Liptak

ISBN: **9789332570481** | Pages: **352** | Year: **2016**

About the book

In just 24 sessions of one hour or less, students will be up and running with AngularJS in their Microsoft .NET environment. Using a straightforward, step-by-step approach, each lesson builds on their .NET skills and knowledge, helping them quickly learn the essentials of AngularJS, and use it to streamline any web development project.

LISP-PROGRAMMING

Clojure Recipes

Julian Gamble

ISBN: **9789332581333** | Pages: **288** | Year: **2017**

About the book

Developers are discovering the immense power of Clojure's functional programming model to quickly solve problems in domains ranging from social networking to Big Data. Targeting the Java Virtual Machine, Clojure also leverages the Java platform's maturity and enormous ecosystem. Clojure Recipes is a "code recipe book" for this increasingly popular language.

Julian Gamble focuses on practical and complete examples that illuminate Clojure's key features and show step-by-step how to solve real-world problems with it. Clojure Recipes provides a series of "learn by doing" step-by-step projects, you'll learn how to:

- Write your own DSL
- Build a website with Pedestal
- Add Clojurescript to your website
- Abstract boilerplate code into a macro
- Get started with Storm
- Get started with Datomic
- Build log readers, web app monitors, web testing suites, customized Ant tasks

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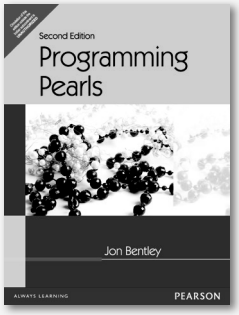
CRAFT OF PROGRAMMING



Programming Pearls, 2e

Jon Bentley

ISBN: **9788177588583** | Pages: **256** | Year: **2002**

About the book

In this revision, the first in 14 years, Bentley has substantially updated his essay to reflect current programming methods and environments. In addition, there are three new essays on (1) testing, debugging, and timing; (2) set representations; and (3) string problems. All he original programs have been rewritten, and an equal amount of new code has been generated. Implementations of all the programs, in C or C++, are now available on the Web. What remains the same in this new edition is Bentley's focus on the hard core of programming and his delivery of workable solutions to those problems. 'Whether you are new to Bentley's classic or are revisiting his work for some fresh insight, the book is sure to make your own list of favorites.

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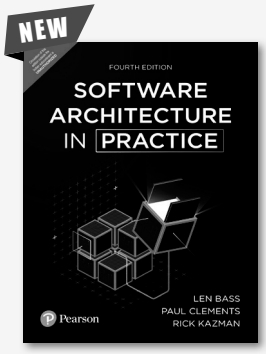
SOFTWARE ARCHITECTURE



Software Architecture in Practice 4e

Len Bass, Paul Clements, Rick Kazman

ISBN: **9788196874346** | Pages: **400** | Year: **2024**

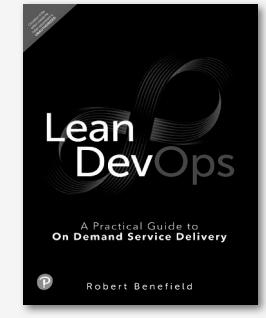
E-Book Available

About the book

Updated with eleven new chapters, Software Architecture in Practice, Fourth Edition, thoroughly explains what software architecture is, why it's important, and how to design, instantiate, analyze, evolve, and manage it in disciplined and effective ways. Three renowned software architects cover the entire lifecycle, presenting practical guidance, expert methods, and tested models for use in any project, no matter how complex. You'll learn how to use architecture to address accelerating growth in requirements, system size, and abstraction, and to manage emergent quality attributes as systems are dynamically combined in new ways. With insights for utilizing architecture to optimize key quality attributes–including performance, modifiability, security, availability, interoperability, testability, usability, deployability, and more–this guide explains how to manage and refine existing architectures, transform them to solve new problems, and build reusable architectures that become strategic business assets.

Features

- Guides software architects through gathering requirements, designing, documenting and analyzing architectures, and evolving and managing existing architectures
- Contains new content on mobility, cloud software, AI/machine learning, deployability, energy management, safety, DevOps, and quantum computing
- Covers each major software quality attribute that drives design, including performance, modifiability, security, and availability
- Offers proven models for optimizing software quality through better architecture
- Part of the world-renowned SEI Series in Software Engineering



Lean DevOps: A Practical Guide to On Demand Service Delivery

Robert Benefield

ISBN: **9788119847860** | Pages: **496** | Year: **2023**

About the book

As service stacks grow more complex, it becomes even tougher to deliver on-demand IT services that meet customers' expectations for speed, consistency, reliability, security, privacy, and value. Layering on new cloud technologies, architectural approaches, or methodologies can aggravate the problem by widening the gap between what delivery teams think they're delivering and what customers actually experience. In Lean DevOps, technical leader Robert Benefield helps you escape this spiral, reverse bad habits, and regain the situational awareness you need to deliver the right services in the right way.

This book will help readers understand:

- Powerful visual management techniques for improving the speed and quality of IT service delivery and the transparency and effectiveness of IT teams

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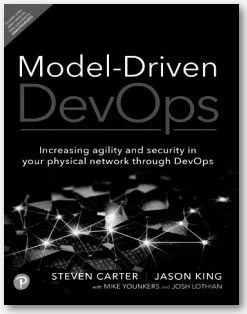
- Expert real-world insights for managing unplanned work and work in progress
- Up-to-date guidance on successfully integrating IT run practices with Agile and Kanban methods
- Better ways to strengthen connections between IT and customers



Model-Driven DevOps: Increasing agility and security in your physical network through DevOps

Mike Younkers | Josh Lothian | Steven Carter | Jason King

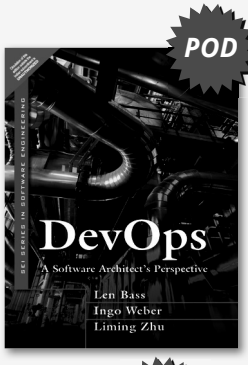
ISBN: **9788119847020** | Pages: **192** | Year: **2023**

About the book

"Develop Network Infrastructure More Rapidly, and Operate It More Effectively Using model-driven DevOps and the Infrastructure as Code (IaC) paradigm, teams can develop and operate network infrastructure more quickly, consistently, and securely--growing agility, getting to market sooner, and delivering more value. Now, two leading practitioners walk you step by step through successfully implementing model-driven DevOps for infrastructure. In this practical guide, they share lessons learned, help you avoid common pitfalls, and illuminate key differences between DevOps for infrastructure and conventional application-based DevOps.

This book will help readers understand:

- Normalize and organize network infrastructure data consistently, to gain the same benefits from DevOps as cloud operators do
- Replace legacy command lines with APIs, then leverage and scale them
- Use configuration management, templates, and other tools to program infrastructure without coding
- Safely implement Continuous Integration/Continuous Deployment for infrastructure
- Succeed with key human factors: break down silos, change culture, and address skills gaps



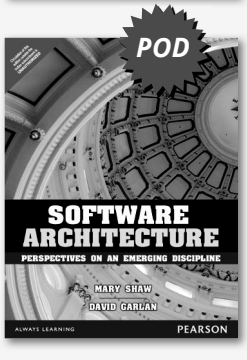
DevOps: A Software Architect's Perspective

Len Bass, Ingo Weber, Liming Zhu

ISBN: **9789332570375** | Pages: **352** | Year: **2016**

About the book

This book provides a conceptual discussion of DevOps practices and their implications on system design. It covers team practices related to DevOps, build and test, deployment, and post deployment. This is the only book that deals with the system implications of DevOps. It includes case studies, references, practical examples and checklists for architects.



Software Architecture: Perspectives on an Emerging Discipline

Mary Shaw, David Garlan

ISBN: **9789332551954** | Pages: **242** | Year: **2015**

About the book

Appropriate for special topic courses on Software Architecture or as an inexpensive supplement to software engineering courses.

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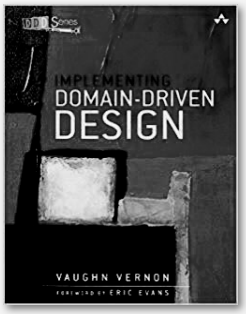


Implementing Domain-Driven Design

Vaughn Vernon

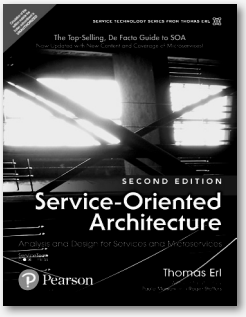
ISBN: **9789332545489** | Pages: **656** | Year: **2013**

EXCLUSIVELY DISTRIBUTED BY GOEL'S COMPUTER HUT

About the book

The practical, example-driven guide to transforming the promise of Domain-Driven Design (DDD) into reality. Starts where Eric Evans' seminal book leaves off, helping DDD adopters smooth their learning curves, choose their best opportunities, and succeed. Focuses on relevant example domains, including Scrum-based project management, collaboration suites, and security providers. Working examples help readers make better strategic and tactical choices and overcome common pitfalls.

SERVICE-ORIENTED ARCHITECTURE



Service-Oriented Architecture: Analysis and Design for Services and Microservices, 2e

Thomas Erl

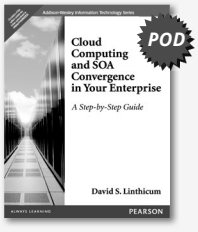
ISBN: **9789390325801** | Pages: **416** | Year: **2022**

About the book

For more than a decade, Thomas Erl's best-selling Service-Oriented Architecture: Concepts, Technology, and Design has been the definitive end-to-end tutorial on SOA, service-orientation, and service technologies. Now, Erl has thoroughly updated the industry's de facto guide to SOA to reflect new practices, technologies, and strategies that have emerged through hard-won experience and creative innovation.

Features

A thorough update, this Second Edition incorporate new SOA practices, technologies and strategies that have emerged and evolved over the decade since the First Edition was published. It contains dozens of new case study examples and over 300 up-to-date diagrams, illuminating the most important facets of creating, leveraging and sustaining contemporary SOA. It has been revised to address today's best practices for every key phase of the SOA delivery lifecycle, from analysis to design to governance. New areas of coverage include service inventories, SOA governance frameworks, and maintaining SOA vitality.



ISBN: **9788131733585**

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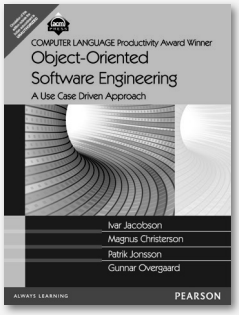
SOFTWARE ENGINEERING TECHNOLOGIES



Object Oriented Software Engineering

Ivar Jacobson

ISBN: **9788131704080** | Pages: **552** | Year: **24-Jun-05**

About the book

How can software developers, programmers and managers meet the challenges of the 90s and begin to resolve the software crisis? This book is based on Objectory which is the first commercially available comprehensive object-oriented process for developing large-scale industrial systems. The approach takes a global view of system development and focuses on minimizing the system's life cycle cost. This edition has been completely updated to make it as accessible and complete as possible. New material includes the revised Testing chapter, in which new product developments are discussed.

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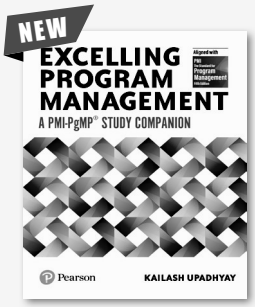
SOFTWARE PROJECT MANAGEMENT



Excelling Program Management – A PMI PgMP Study Companion

Kailash Upadhyay

ISBN: **9789356069312** | Pages: **412** | Year: **2024**

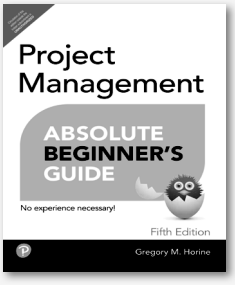
E-Book Available

About the book

"Excelling Program Management: A PMI-PgMP Study Companion" introduces readers to the essential and advanced concepts of program management, meticulously aligned with the PMI Standard for Program Management (SPM), fifth edition. It is designed for both aspiring and experienced program managers who aim to achieve excellence in their field. The book's structured approach simplifies complex program management topics, making them accessible and engaging for professionals at all levels. Through real-world case studies, scenario-based questions, and practical insights, this book bridges the gap between theory and application, ensuring that readers are not just prepared for the PgMP exam but are also equipped to excel in managing diverse and strategic programs. The author's clear and concise writing style, combined with a deep understanding of global program management practices, ensures that the text is both comprehensive and easy to digest.

Features

- Thorough Mastery: Equip yourself with a deep understanding of all six Program Management domains, ensuring you're fully prepared to excel in your certification and beyond.
- Actionable Insights: Gain practical knowledge through real-world examples, enabling you to apply program management principles effectively in any industry.
- Confidence Building: Practice with scenario-based questions that mirror real exam challenges, boosting your confidence and readiness.
- Efficient Learning: Benefit from clear, concise explanations that make even the most complex topics easy to grasp and remember.
- Global Competency: Stay ahead with best practices from around the world, making you a valuable asset in any global organization.
- Strategic Success: Leverage proven strategies from a seasoned PgMP mentor to enhance your career and achieve your professional goals.



Project Management Absolute Beginner's Guide, 5e

Greg Horine

ISBN: **9788119847037** | Pages: **468** | Year: **2023**

About the book

Succeed as a project manager, even if you've never run a project before! This book is the fastest way to master every project management task, from upfront budgeting and scheduling through execution, managing teams through closing projects, and

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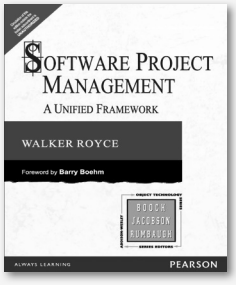
learning from experience. Updated with more insights from the front lines, including agile approaches, dealing with security and privacy priorities, and leading remote/virtual teams, along with the latest on Microsoft Project and PMI standards and certifications and a special bonus chapter on preparing for the new PMP certification. This book will show you exactly how to get the job done, one incredibly clear and easy step at a time. Project management has never, ever been this simple!

Features

- Master the key skills and qualities every project manager needs
- Learn how to lead projects, not just "manage" them
- Avoid 15 most common mistakes new project managers make
- Learn from troubled, successful, and "recovered" projects
- Apply agile, hybrid, and traditional project management approaches
- Learn the differences between a project manager, Scrum master, and product owner
- Learn how DevOps and DevSecOps impact the project manager
- Set the stage for success by effectively defining your project
- Build a usable project plan and an accurate work breakdown structure (WBS)
- Create budgets and schedules that help you manage risk
- Use powerful control and reporting techniques, including earned value management
- Smoothly manage project changes, issues, risks, deliverables, and quality
- Manage project communications and stakeholder expectations
- Organize and lead high-performance project teams
- Manage cross-functional, cross-cultural, and virtual projects
- Get started with agile and "critical chain" project management
- Gain key insights that will accelerate your learning curve
- earn how to respond to real-life situations, not just what they teach you in school



Software Project Management

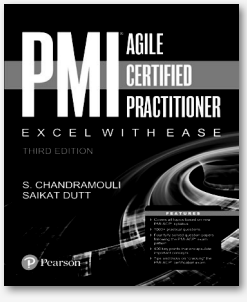
Walker Royce

ISBN: **9788177583786** | Pages: **448** | Year: **2002**

E-Book Available

About the book

Software Project management presents a new management framework uniquely suited to the complexities of modern softwrae development. Walker Royces pragmatic perspective exposes the shortcomins of many well-accepted management priorities and equips software professional with state-of-the-art knowledge derived from his twenty years of successful from-the-trenches project management experience.



PMI Agile Certified Practitioner: Excel with Ease, 3e

Subramanian Chandramouli, Saikat Dutt

E-Book Available

ISBN: **9789332573949** | Pages: **488** | Year: **2017**

About the book

This self-study guide is essential reading for all PMI-ACP® aspirants to clear the certification exam.Following an easy and a step-by-step learning approach, this book presents not only the basic agile concepts but also the latest developments in the field, based entirely on the latest guidelines from the Project Management Institute.

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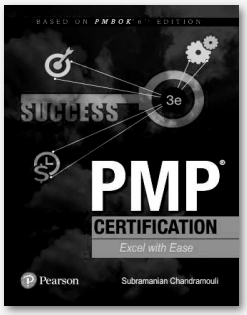


PMP Certification,Excel with Ease, 3e

Subramanian Chandramouli

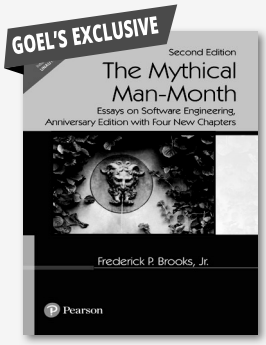
ISBN: **9789353064822** | Pages: **452** | Year: **2018**

E-Book Available

About the book

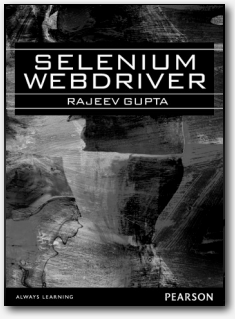
Project Management Professional (PMP) is a credential oared by the Project Management Institute (PMI). Both government and private organizations employ PMP certified project managers in an attempt to improve the success rate of projects in all areas of knowledge, by applying a standardized and evolving set of project management principles.

PMP Certification: Excel with Ease is a self-study guide and is essential to all PMP aspirants to clear the Certification exam in the rest attempt itself. The book presents the project management concepts in an easily understandable way and is based on A Guide to the Project Management Body of Knowledge (PMBOK Guide), sixth edition, which presents a set of standard terminology and guidelines for project management.



ISBN: 9788177581621

SOFTWARE TESTING



Selenium WebDriver

Rajeev Gupta

ISBN: **9789332526297** | Pages: **488** | Year: **2014**

E-Book Available

About the book

Selenium WebDriver is a widely used test automation tool for browser based applications. The objective of this book is to help novice users to learn the code in Selenium WebDriver environment and help advanced users to master the skills on Selenium WebDriver. The book is replete with practical life problems faced in Selenium WebDriver environment and their possible solutions to enable the readers quickly master the skills of Selenium WebDriver. This book is designed according to Selenium WebDriver 2.x, which is the latest available version of Selenium.

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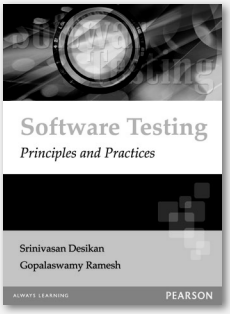


Software Testing: Principles and Practice

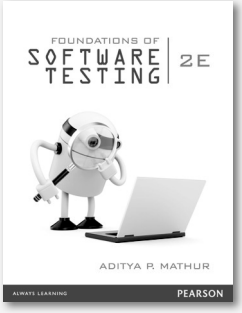
Srinivasan Desikan, Gopalaswamy Ramesh

ISBN: **9788177581218** | Pages: **480** | Year: **2005**

E-Book Available

About the book

Software Testing: Principles and Practices is a comprehensive treatise on software testing. It provides a pragmatic view of testing, addressing emerging areas like extreme testing and ad hoc testing



Foundations of Software Testing, 2e

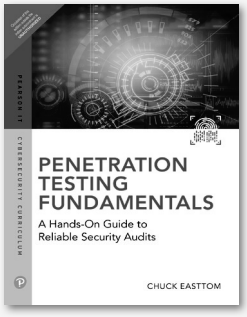
Aditya P Mathur

ISBN: **9788131794760** | Pages: **728** | Year: **2013**

E-Book Available

About the book

The Second Edition of Foundations of Software Testing is aimed at the undergraduate, the graduate students and the practicing engineers. It presents sound engineering approaches for test generation, ion, minimization, assessment, and enhancement. Using numerous examples, it offers a lucid description of a wide range of simple to complex techniques for a variety of testing-related tasks. It also discusses the comparative analyses of commercially available testing tools to facilitate the tool ion.



Penetration Testing Fundamentals

William (Chuck) Easttom

ISBN: **9789353062385** | Pages: **448** | Year: **2018**

About the book

Leading security expert, researcher, instructor, and author Chuck Easttom II has brought together all the essential knowledge in a single comprehensive guide that covers the entire penetration testing lifecycle. Easttom integrates concepts, terminology, challenges, and theory, and walks you through every step, from planning to effective post-test reporting. He presents a start-to-finish sample project relying on free open source tools, as well as quizzes, labs, and review sections throughout. Penetration Testing Fundamentals is also the only book to cover pentesting standards from NSA, PCI, and NIST.

Software Testing, 2e

Ron Patton

ISBN: **9788177580310** | Pages: **408** | Year: **2005**

E-Book Available

About the book

Software testing is one of the invisible jobs in the software industry. Everyone has heard of computer programmers but few people realize there are nearly as many people behind the scenes with job titles such as Software Tester, Software Quality Assurance Engineer, Software Test Engineer, and Software Test Technician. Microsoft alone hires hundreds of people for these positions each year. There are also many companies whose sole purpose is providing software test consulting and software testing services. The first edition of Software Testing was published in November 2000.

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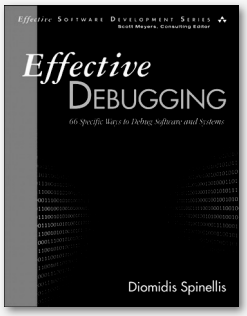


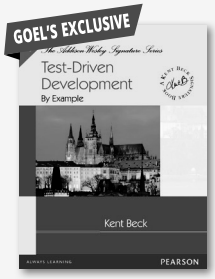
Effective Debugging

Diomidis Spinellis

ISBN: **9789352866588** | Pages: **256** | Year: **2018**

About the book

In Effective Debugging, Diomidis Spinellis helps students accelerate their journey to mastery, by systematically categorizing, explaining, and illustrating scores of today's best methods, strategies, techniques, and tools.



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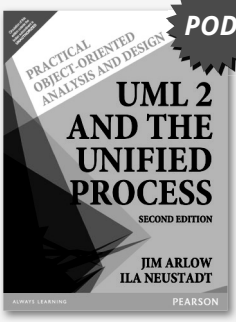


POD

UML 2 AND THE UNIFIED PROCESS: Practical Object-Oriented Analysis and Design 2e

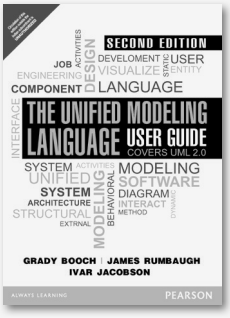
Jim Arlow

E-Book Available

ISBN: **9789332547926** | Pages: **504** | Year: **2015**

About the book

This thoroughly revised second edition is based upon the authors' successful training courses, and gives the reader a quick, focused tour through a proven object-oriented analysis and design process. It introduces and explains the need-to-know concepts and key elements of both Unified Modeling Language (UML) and the Unified Process (UP). The book allows the reader to get up to speed on successful techniques that can be immediately applied. The structure of the book aims to give the reader as clear and uncomplicated a guide as possible. It takes the reader through an introduction to UML, an introduction to the UP, then covers the basics of software requirements and use case modeling. The key aspects of the analysis and design stages are covered in step by-step detail, finishing off with implementation.



The Unified Modeling Language User Guide 2e

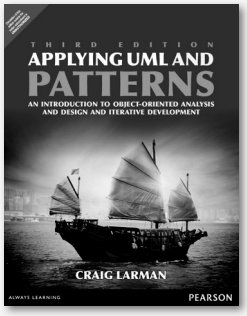
Grady Booch, James Rumbaugh, Ivar Jacobson

E-Book Available

ISBN: **9789332551619** | Pages: **488** | Year: **2016**

About the book

Starting with an overview of the UML, the book explains the language gradually by introducing a few concepts and notations in each chapter. It also illustrates the application of the UML to complex modeling problems across a variety of application domains. The in-depth coverage and example-driven approach that made the first edition of The Unified Modeling Language User Guide an indispensable resource remain unchanged. However, content has been thoroughly updated to reflect changes to notation and usage required by UML 2.0.



Applying UML and Patterns, 3e

Craig Larman

E-Book Available

ISBN: **9789332553941** | Pages: **736** | Year: **2015**

About the book

Craig Larman again delivers a clear path for students to learn object-oriented analysis and design through his clear and precise writing style. Larman teaches newcomers to OOA/D learn how to "think in objects by presenting three iterations of a single, cohesive case study, incrementally introducing the requirements and OOA/D activities, principles, and patterns that are most critical to success.

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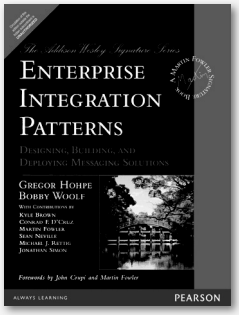


Enterprise Integration Patterns

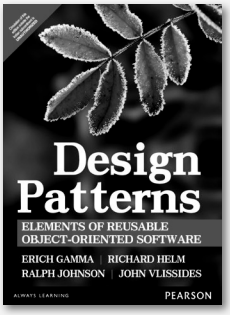
Gregor Hohpe, Bobby Woolf

ISBN: **9788131725085** | Pages: **736** | Year: **2008**

E-Book Available

About the book

This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system.If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book.



Design Patterns: Elements of Reusable Object-Oriented Software

Erich Gamma

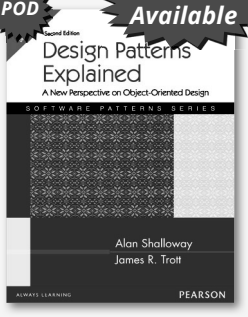
ISBN: **9789332555402** | Pages: **400** | Year: **2015**

E-Book Available

About the book

The authors begin by describing what patterns are and how they can help you design object-oriented software. They then go on to systematically name, explain, evaluate, and catalog recurring designs in object-oriented systems. With Design Patterns as your guide, you will learn how these important patterns fit into the software development process, and how you can leverage them to solve your own design problems most efficiently.

POD *E-Book Available*



ISBN: 9788131700846

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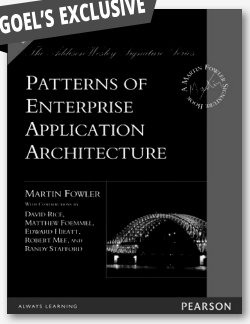

ISBN: 9788131794029

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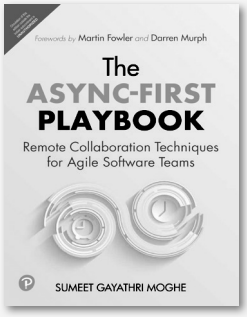
LEAN AGILE TECHNOLOGIES



The Async-First Playbook: Remote Collaboration Techniques for Agile Software Teams

Sumeet Gayathri Moghe

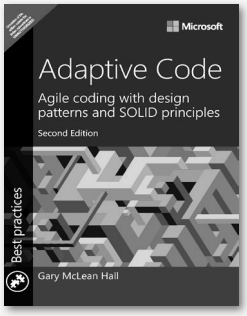
ISBN: **9788119847709** | Pages: **368** | Year: **2023**

About the book

In The Async-First Playbook, Thoughtworks Principal Product Manager Sumeet Gayathri Moghe provides tools and techniques to embed remote-native, asynchronous practices into traditional agile methods, making remote work more efficient, inclusive, thoughtful, and fun. Drawing on extensive experience leading distributed teams, Moghe addresses the "nuts and bolts" of specific practices and the crucial "softer" elements such as culture, mindset, and leadership. Short, practical chapters show how to adapt traditional agile techniques such as sprints and pair programming for the realities of today's distributed environments. Whatever your project, you ll learn how to create asynchronous environments that promote success, improve the workplace experience, and deliver better results.

Features

- Discover why asynchronous collaboration is crucial to your project's success
- Learn the tools, skills, and protocols you need to get right in order to go "async-first"
- Map current agile techniques to async-first versions that better reflect today's realities
- Become a more supportive and effective leader of async-first teams
- Anticipate, navigate, and mitigate the pitfalls of async-first distributed work
- Bring it all together—walk through your async-first transition
- Access valuable resources, examples, and hands-on templates at the companion website



Adaptive Code: Agile coding with design patterns and SOLID principles, 2e

Gary McLean Hall

ISBN: **9789390531899** | Pages: **448** | Year: **2022**

About the book

By applying this book's principles, students can create code that accommodates new requirements and unforeseen scenarios without significant rewrites. Gary McLean Hall describes Agile best practices, principles, and patterns for designing and writing code that can evolve more quickly and easily, with fewer errors, because it doesn't impede change.

Now revised, updated, and expanded, Adaptive Code, Second Edition, adds indispensable practical insights on Kanban, dependency inversion, and creating reusable abstractions. Drawing on more than a decade of Agile consulting and development experience, McLean Hall has updated this edition with deeper coverage of unit testing, refactoring, pure dependency injection, and more.

Features

- Bridges the gap between theory and practice, guiding students through applying key concepts to a pragmatic agile coding project
- New coverage includes: Kanban for BAU, Domain-Driven Design, Hexagonal Architecture, Test-Driven Development, and Test-First methodology

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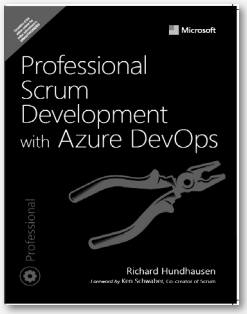
- Contains expanded coverage of unit testing, refactoring, and Pure Dependency Injection
- Packed with up-to-date C# examples (and written for developers using multiple languages)



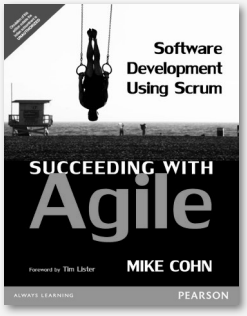
Professional Scrum Development with Azure DevOps

Richard Hundhausen

ISBN: **9789356060067** | Pages: **428** | Year: **2022**

About the book

Professional Scrum Development with Azure DevOps stands apart from all other Scrum and Azure guides by focusing on the fusion of today's most popular agile framework (Scrum) and ALM/DevOps toolset (Azure DevOps). Hundhausen shows how a professional Scrum team can more effectively plan, track, and manage its work with Azure Boards, Azure Test Plans, and related Azure DevOps features. He offers detailed coverage of team formation, backlogs, sprints, test plans, collaboration, flow, continuous improvement, and the real-world tradeoffs between using tools and interacting directly with other team members. To make this guide even more valuable, Hundhausen has crafted it to complement Scrum.org's popular Professional Scrum Developer (PSD) program, which he personally created with Scrum.org's Ken Schwaber.



Succeeding with Agile: Software Development using Scrum

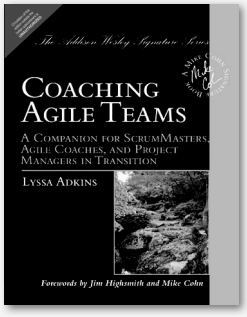
Mike Cohn

ISBN: **9789332547964** | Pages: **384** | Year: **2015**

E-Book Available

About the book

Succeeding with Agile is for pragmatic software professionals who want real answers to the most difficult challenges they face in implementing Scrum. Cohn covers every facet of the transition: getting started, helping individuals transition to new roles, structuring teams, scaling up, working with a distributed team, and finally, implementing effective metrics and continuous improvement. Throughout, Cohn presents "Things to Try Now" sections based on his most successful advice. Complementary "Objection" sections reproduce typical conversations with those resisting change and offer practical guidance for addressing their concerns.



Coaching Agile Teams: A Companion for ScrumMasters, Agile Coaches, and Project Managers in Transition

Lyssa Adkins

ISBN: **9788131766637** | Pages: **352** | Year: **2010**

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About the book

Deeply understand and fully master the role of the agile coach in helping teams produce truly remarkable products, move from "command-and-control" project management to effective leadership for exceptional performance and practical tools and techniques that reflect Lyssa Adkins' immense experience as an agile coach, trainer, and project leader.

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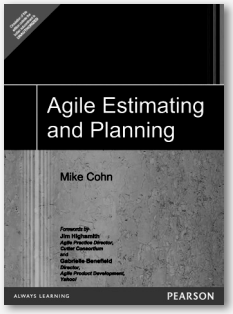


Agile Estimating and Planning

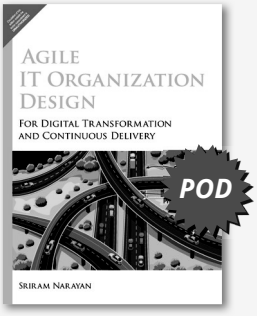
Mike Cohn

ISBN: **9788131705483** | Pages: **360** | Year: **2006**

E-Book Available

About the book

The first step to project success is accurate estimating and realistic planning. Projects with unrealistic expectations affixed to them are likely to derail at an early stage. This book shows the software practitioner how to effectively estimate and properly plan a project within an agile context. The book's content is suitable for projects using any agile or semi-agile process (such as Extreme Programming, Scrum, Feature Driven Development, Crystal, Adaptive Software Development, DSDM or even the IBM Rational Unified Process).



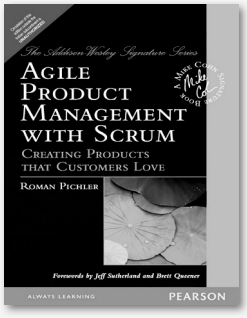
Agile IT Organization Design

Sriram Narayan

ISBN: **9789332557369** | Pages: **304** | Year: **2015**

About the book

This book teaches students how to build an organizational framework based on agile principles for better team design, communications design, clear lines of accountability and a set of valued organizational norms for good organization design to create a healthy environment for Business-IT effectiveness and agility in small, medium, and large software companies.



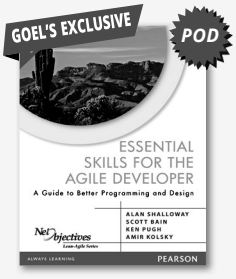
Agile Product Management with Scrum: Creating Products that Customers Love

Roman Pichler

ISBN: **9788131766644** | Pages: **160** | Year: **2011**

About the book

Agile Product Management with Scrum, leading Scrum consultant Roman Pichler uses real-world examples to demonstrate how product owners can create successful products with Scrum. He describes a broad range of agile product management practices, including making agile product discovery work, taking advantage of emergent requirements, creating the minimal marketable product, leveraging early customer feedback, and working closely with the development team.



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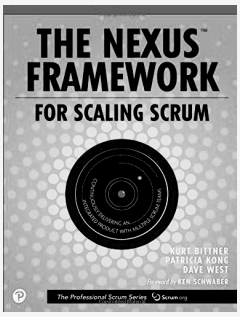

Nexus Framework for Scaling Scrum, The: Continuously Delivering an Integrated Product with Multiple Scrum Teams

Kurt Bittner / Patricia Kong / Dave West

ISBN: **9789353069827** | Pages: **176** | Year: **2018**

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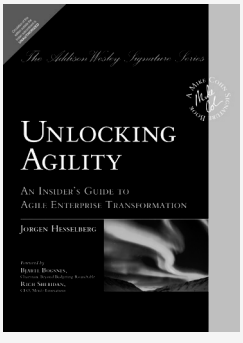
About the book

Scaling Scrum with Nexus introduces a better approach, reflecting the authors' many years of applying and scaling Scrum in multiple industries. Four leading Scrum.org experts introduce the Nexus Framework, showing how it enables smooth integration among multiple Scrum teams, as well as highly-effective collaboration with non-Scrum teams working on the same project. Drawing on their immense experience, they explain what Nexus is, how it works, and how it solves agile scalability problems that have bedeviled organizations for years. Next, they offer start-to-finish guidance for applying Nexus Framework principles throughout your own organization. Readers will walk through forming a Nexus, organizing work in a Nexus environment, managing and enabling a Nexus, and much more — all that is needed to succeed with Scrum in even the most challenging global projects.



Unlocking Agility: An Insider's Guide to Agile Enterprise Transformation

Jorgen Hesselberg

ISBN: **9789353431075** | Pages: **368** | Year: **2018**

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About the book

Over the past decade, Jorgen Hesselberg has had an interesting view into some noteworthy agile adoptions (Spotify, Yahoo, Walmart, and many more). Not all of the adoptions were smooth, or even successful. From these first-hand experiences (as a practitioner), he is prepared to share what he has learned so that individuals at larger organizations can learn how best to navigate an agile adoption. Whether an organization favors LeSS, or SAFe, or any other method, Hesselberg can teach the reader to prepare for the transformation, and become an agent for a successful change.

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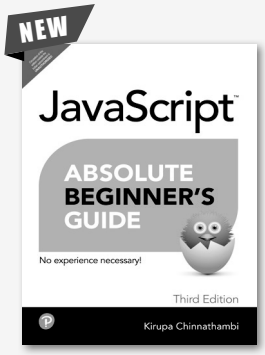
HTML/DHTML/CSS



Javascript Absolute Beginner's Guide, 3e

E-Book Available

Kirupa Chinnathambi

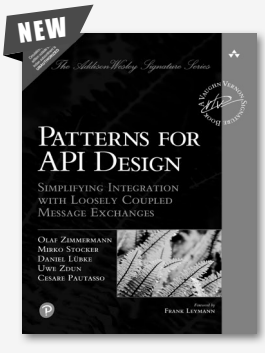
ISBN: **9789361592010** | Pages: **620** | Year: **2024**

About the book

Make the most of today's JavaScript--even if you've never programmed anything before. JavaScript Absolute Beginner's Guide, Third Edition is the fastest way to learn JavaScript, starting with the basics and gradually going deeper and broader into all the techniques you need to begin building highly scalable, performant web apps and experiences. Do what you want, the way you want, one incredibly easy step at a time!

Features

- Start fast with the basics: values, variables, functions, conditionals, loops, closures, and more Create well-organized, clear code that's easy to reuse and improve Learn proven best practices to build web apps that scale with outstanding performance Make the most of powerful object-oriented techniques to build complex, extensible apps Wrangle data like a pro by learning how to use the popular JSON standard, arrays, web storage, and more Translate your ideas into visually compelling and interactive content by learning how to work with the DOM Identify and fix issues quickly by learning how to use the in-browser development tools Understand the ins and outs of events and how you can use them to react to actions the user or the page will perform Learn how to ensure your code runs lightning-fast with extra coverage of performance optimizations and techniques you can use Learn the basics that set you up to more quickly use modern web frameworks like React, Vue, Next.js, and Nuxt Explore advanced features such as object destructuring, making web requests, the class syntax, accessing your webcam, variable hoisting, and more



Patterns for API Design: Simplifying Integration with Loosely Coupled Message Exchanges

Olaf Zimmermann | Mirko Stocker | Daniel Lubke | Uwe Zdun | Cesare Pautasso

ISBN: **9789361591280** | Pages: **544** | Year: **2024**

E-Book Available

About the book

APIs enable breakthrough innovation and digital transformation in organizations and ecosystems of all kinds. To create user-friendly, reliable and well-performing APIs, architects, designers, and developers need expert design guidance. This practical guide cuts through the complexity of API conversations and their message contents, introducing comprehensive guidelines and heuristics for designing APIs sustainably and specifying them clearly, for

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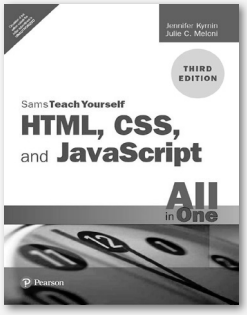
whatever technologies or platforms you use. In Patterns for API Design: Simplifying Integration with Loosely Coupled Message Exchanges, five expert architects and developers cover the entire API lifecycle, from launching projects and establishing goals through defining requirements, elaborating designs, planning evolution, and creating useful documentation. They crystallize the collective knowledge of many practitioners into 44 API design patterns, consistently explained with context, pros and cons, conceptual solutions, and concrete examples. To make their pattern language accessible, they present a domain model, a running case study, decision narratives with pattern selection options and criteria, and walkthroughs of real-world projects applying the patterns in two different industries.

Features

- Identify and overcome API design challenges with patterns Size your endpoint types and operations adequately Design request and response messages and their representations Refine your message design for quality Plan to evolve your APIs Document and communicate your API contracts Combine patterns to solve real-world problems and make the right tradeoffs



HTML, CSS, and JavaScript All in One, Sams Teach Yourself, 3e

Julie C. Meloni | Jennifer Kyrnin

ISBN: **9789389552416** | Pages: **800** | Year: **2019**

E-Book Available

About the book

Teach Yourself HTML, CSS, and JavaScript All in One combines these three fundamental web development technologies into one clearly written, carefully organized, step-by-step tutorial that expertly guides the beginner through these three interconnected technologies.

Web Development and Design Foundations with HTML5, 9e

Terry Felke-Morris

ISBN: **9789353438821** | Pages: **715** | Year: **2019**

E-Book Available

About the book

Web Development and Design Foundations with HTML5 introduces HTML and CSS topics such as text configuration, color configuration, and page layout, with an enhanced focus on the topics of design, accessibility, and Web standards. The text relates both the necessary hard skills (such as HTML5, CSS, and JavaScript) and soft skills (design, e-commerce, and promotion strategies) considered fundamental to contemporary web development. An emphasis on hands-on practice provides a well-rounded foundation to help students as they pursue careers as web professionals. The updated and expanded 9th Edition contains current coverage of HTML5 and HTML5.1, expanded coverage of designing for mobile devices, and more.

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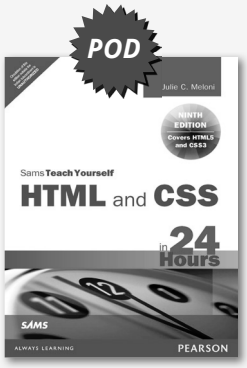


HTML and CSS in 24 Hours, Sams Teach Yourself (Updated for HTML5 and CSS3), 9e

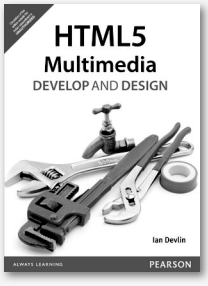
Julie C. Meloni

ISBN: **9789332535992** | Pages: **480** | Year: **2014**

E-Book Available

About the book

Sams Teach Yourself HTML and CSS in 24 Hours is a well-organized, clearly written, and generously illustrated tutorial that teaches beginners how to quickly create great-looking web pages using HTML5 and CSS3. The ninth edition of Sams Teach Yourself HTML and CSS in 24 Hours brings the entire book in line with the HTML5 and CSS3 specifications and capabilities and includes fresh material and examples that take full advantage of the book's full-color layout and design.



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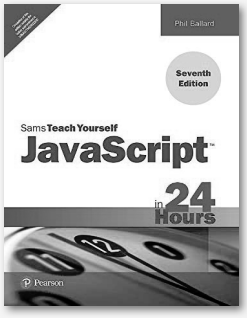
ISBN: **9788131786901**

WEB DEVELOPMENT & DESIGN



JavaScript in 24 Hours, Sams Teach Yourself, 7e

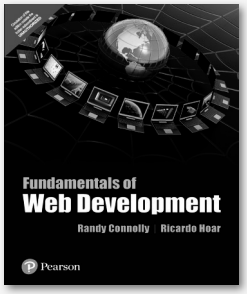
Phil Ballard

ISBN: **9789389552942** | Pages: **428** | Year: **2019**

About the book

In just 24 lessons of one hour or less, Sams Teach Yourself JavaScript in 24 Hours helps students learn the fundamentals of web programming using the JavaScript language.

Designed for beginners with no previous programming experience, this book's straightforward, step-by-step approach shows readers how to use JavaScript to add a wide array of interactive features and effects to web pages.



Fundamentals of Web Development

Randy Connolly, Ricardo Hoar

ISBN: **9789332575271** | Pages: **1024** | Year: **2016**

E-Book Available

About the book

Fundamentals of Web Development covers the broad range of topics required for modern web development (both client- and server-side) and is appropriate for students who have taken a CS1 course sequence. The book guides students through the creation of enterprise-quality websites using current development frameworks, its comprehensive coverage of a modern internet development

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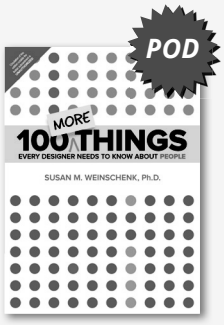
platform includes HTML5, CSS3, Javascript, and the LAMP stack (that is, Linux, Apache, MySQL, and PHP). Other important technologies covered include jQuery, XML, WordPress, Bootstrap, and a variety of third-party APIs that include Facebook, Twitter, and Google and Bing Maps.



100 MORE Things Every Designer Needs to Know About People

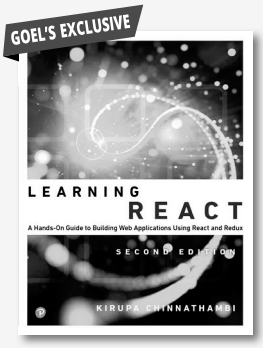
Susan Weinschenk

ISBN: **9789332570443** | **10** | Pages: **288** | Year: **2016**

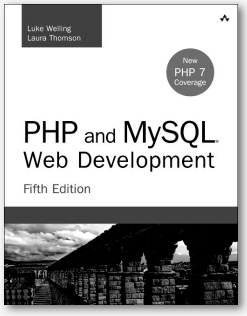
About the book

Susan Weinschenk's new book, 100 MORE Things Every Designer Needs To Know About People, is ideal for design and marketing students. It applies the latest research in psychology, neuroscience, brain research, and social psychology, to the design of technology products, including websites, apps, wearables, and artificial intelligence. Weinschenk combines real science and research citations with practical examples to make her 100 MORE Things engaging, persuasive, easy to read, accessible, and useful. This is not just another "design guidelines" book because it explains the WHY behind the guidelines, providing concrete examples and prescriptions that can be easily and instantly applied.

PHP/MYSQL



ISBN: 9789353065775



PHP and MySQL Web Development, 5e

Luke Welling, Laura Thomson

ISBN: **9789332582736** | Pages: **688** | Year: **2017**

E-Book Available

About the book

PHP and MySQL Web Development shows how to use these tools together to produce effective, interactive Web applications. It clearly describes the basics of the PHP language, explains how to set up and work with a MySQL database, and then shows how to use PHP to interact with the database and the server.

This practical, hands-on book consistently focuses on real-world applications, even in the introductory chapters. The authors cover important aspects of security and authentication as they relate to building a real-world website and show you how to implement these aspects in PHP and MySQL. They also introduce you to the integration of front-end and back-end technologies by using JavaScript in your application development.

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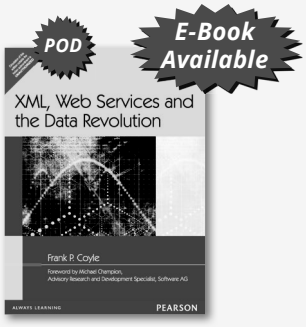
WEB SERVICES



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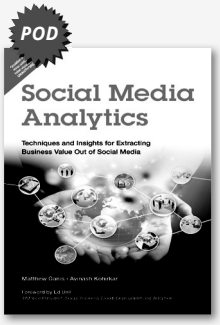

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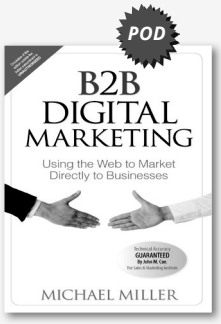

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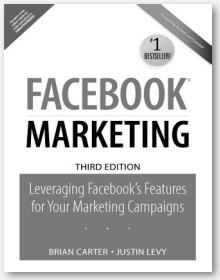

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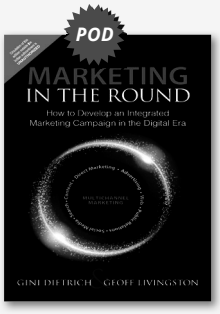

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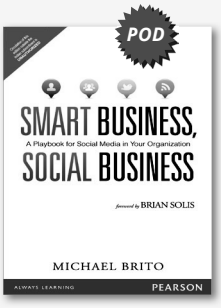

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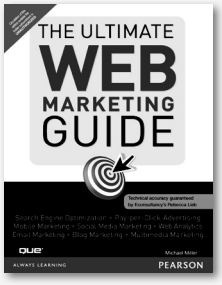

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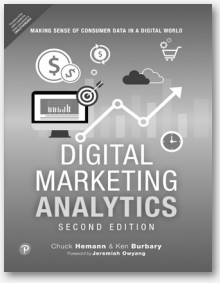

ISBN: **9789353430191**

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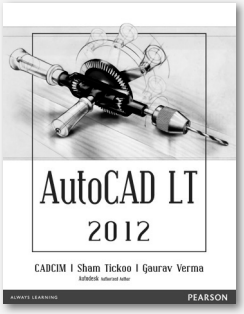


AutoCAD LT 2012

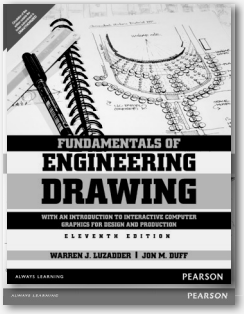
CADCIM, Sham Tickoo, Gaurav Verma

ISBN: **9788131774359** | Pages: **512** | Year: **2012**

About the book

This book covers the basic drafting and design concepts of AutoCAD LT 2012, and offers a thorough coverage of all draw commands and options, editing, dimensioning, hatching, and plotting techniques available. Real-world mechanical, civil, and architectural examples are used throughout the book to ensure that the users can relate their knowledge and understand the techniques used in the industry to create a design.

ENGINEERING GRAPHICS



Fundamentals of Engineering Drawing,11e

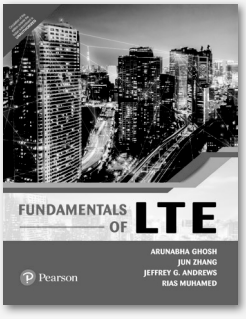
Warren J. Luzadder

ISBN: **9789332549982** | Pages: **704** | Year: **2015**

About the book

This volume presents a solid fundamental treatment of engineering graphics, geometry, and modeling suitable for engineers and technologists. It reflects the most modern drafting proceduresfrom the fundamentals (for the beginner), to techniques and practices of drawing in specialized fields. This revision enhances understanding of graphics fundamentals in the era of computer-aided design.

SICX SIGMA



Fundamentals of LTE, 1e

E-Book Available

Jeffrey G. Andrews, Arunabha Ghosh, Rias Muhamed, Jun Zhang

ISBN: **9789353062392** | Pages: **456** | Year: **2018**

About the book

Long-Term Evolution (LTE) is the next step in the GSM evolutionary path beyond 3G technology, and it is strongly positioned to be the dominant global standard for 4G cellular networks. LTE also represents the first generation of cellular networks to be based on a flat IP architecture and is designed to seamlessly support a variety of different services, such as broadband data, voice, and multicast video. Its design incorporates many of the key innovations of digital communication, such as MIMO (multiple input multiple output) and OFDMA (orthogonal frequency division multiple access), that mandate new skills to plan, build, and deploy an LTE network.

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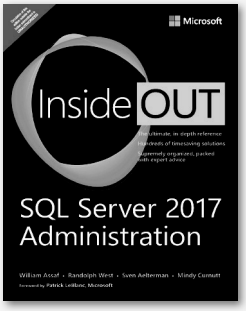


SQL Server 2017 Administration Inside Out

EXCLUSIVELY DISTRIBUTED BY PADMAVATI BOOK DISTRIBUTORS

Paul DuBois

ISBN: **9789390168354** | Pages: **708** | Year: **2022**

About the book

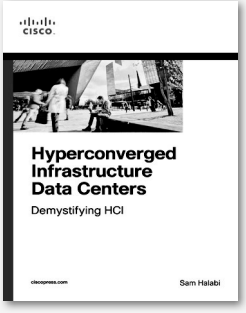
SQL Server 2017 Inside Out is the authoritative in-depth reference for every working database administrator responsible for planning, implementing, or managing SQL Server in any production environment -- on-premises, cloud, or hybrid.

Emphasising SQL Server 2017's newest features, including running SQL Server on Linux, four leading Microsoft database experts share insider techniques, solutions, advice, and troubleshooting tips for maximising efficiency and effectiveness in all facets of deployment and day-to-day administration, and performance optimisation.

The authors tour a wide array of tools and features available in the SQL Server 2017 database engine, SQL Server Data Tools, SQL Server Management Studio, and PowerShell. Throughout, they offer clear overviews, detailed explanations, step-by-step demonstrations, and practical scripts -- all drawing on their extensive in-the-trenches experience.

Features

- Fully explore all new DBA-related features of SQL Server 2017, learning from practical examples and sample code
- Start using and managing SQL Azure and SQL Server running in IaaS
- Understand and master SQL Server security, high availability, and disaster recovery capabilities
- Effectively implement SQL Server 2017 in on-premises and cloud-based architectures
- Discover time-saving solutions, troubleshooting tips, and workarounds that supercharge your effectiveness in production environments
- Written by a world-class team of SQL Server MVP experts, insiders, and consultants



Hyperconverged Infrastructure Data Centers: Demystifying HCI

Sam Halabi

ISBN: **9789389588187** | Pages: **544** | Year: **2019**

E-Book Available

About the book

In Hyperconverged Infrastructure Data Centers, best-selling author Sam Halabi demystifi es HCI technology, outlines its use cases, and compares solutions from a vendor-neutral perspective. He guides students through evaluation, planning, implementation, and management, helping them decide where HCI makes sense, and how to migrate legacy data centers without disrupting production systems.

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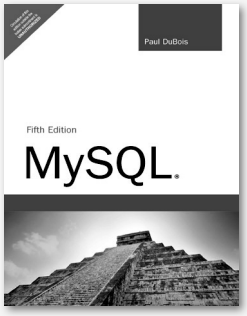


MySQL, 5e

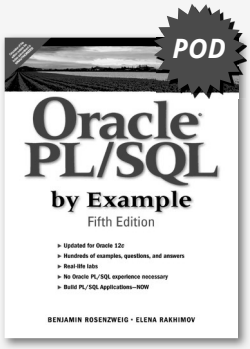
Paul DuBois

ISBN: **9789332523852** | Pages: **1176** | Year: **2015**

E-Book Available

About the book

The definitive guide to using, programming and administering MySQL 5.5 and MySQL 5.6 MySQL provides a comprehensive guide to effectively using and administering the MySQL database management system (DBMS). The book also includes a comprehensive reference section providing detailed information on MySQL's structure, language, syntax, and APIs.



Oracle PL/SQL by Example 5e

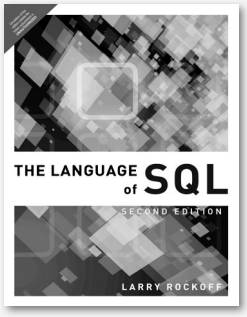
Benjamin Rosenzweig

ISBN: **9789332552005** | Pages: **528** | Year: **2015**

E-Book Available

About the book

Completely updated for Oracle 12c, it covers all the fundamentals, from PL/SQL syntax and program control through packages and optimization. Concepts are thoroughly explained, then illustrated via examples and interactive labs. At the end of each chapter there is a Test Your Thinking section made up of a series of projects designed to solidify all of the skills learned in the chapter.



The Language of SQL, 2e

Larry Rockoff

ISBN: **9789332585928** | Pages: **240** | Year: **2018**

About the book

A quick, clearly written introduction to the use of SQL to store and retrieve information.

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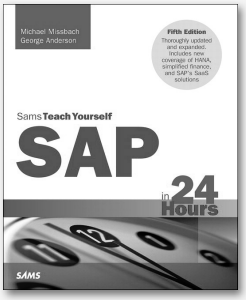

SAP in 24 Hours, Sams Teach Yourself, 5e

Michael Missbach, George Anderson

ISBN: **9789332581876** | Pages: **464** | Year: **2017**

About the book

Thoroughly updated and expanded! Includes new coverage on HANA, the cloud, and using SAP's applications! In just 24 sessions of one hour or less, you'll get up and running with the latest SAP technologies, applications, and solutions. Using a straightforward, step-by-step approach, each lesson strengthens your understanding of SAP from both a business and technical perspective, helping you gain practical mastery from the ground up on topics such as security, governance, validations, release management, SLA, and legal issues.

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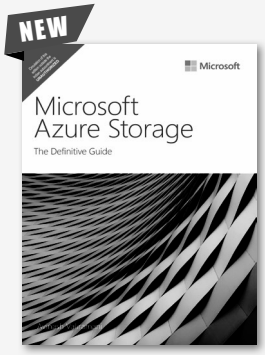


Microsoft Azure Storage: The Definitive Guide

Avinash Valiramani

ISBN: **9789361592331** | Pages: **308** | Year: **2024**

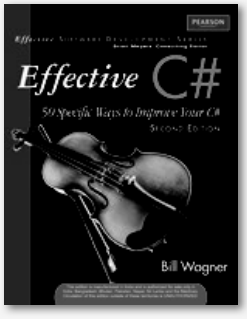
E-Book Available

About the book

For cloud environments to operate and scale as they should, their storage components must be designed and configured well. Now, there's a complete, best-practice guide to designing, deploying, and managing Azure storage services for maximum performance, scalability, and value. Leading cloud consultant Avinash Valiramani shows how to make the most of Azure storage tools and services to reduce downtime, avoid unnecessary costs, simplify management, and maintain excellent performance no matter how large you scale. You'll find detailed, expert coverage of Azure blob, file, queue storage, managed disks, Data Share, Data Box, and more. Whatever your role in delivering efficient, reliable cloud services, this deep dive will help you make the most of your Azure investment.

Features

- Use Blob Storage to store and access large volumes of unstructured data in the cloud, including application data, streaming content, logs, backups, and archival data Replace traditional on-premise file servers with Azure Files to provide scalable shared file storage services over SMB and NFS Implement Managed Disks to provide scalable, secure, and redundant disks for virtual machines in Azure Promote scalability and resilience in large distributed applications with Azure Queue Storage Import/export large data volumes across Azure storage services with Azure Data Box Establish secure, automated, and manageable global data sharing with Azure Data Share



More Effective C#: 50 Specific Ways To Improve Your C#

Bill Wagner

ISBN: **9788131729861** | Pages: **336** | Year: **2009**

E-Book Available

About the book

In the tradition of the Effective series, More Effective will provide programmers already using C# with best practices to write C# components that are reusable and easily updated. Programmers will learn how to avoid the common pitfalls that others have had to learn through hard experience by navigating through these valuable tips and tricks. More Effective C# covers new additions to the C# language as of Version 3.0. It discusses LINQ, Multithreading, Generics, iterators, nullable types, partial classes, all following the Effective format: concentrating on how to use the new features, rather than being a description of how the new features work. Readers will learn how best to apply these features in their own development to create more robust software. Please note - this is not a new edition of Effective C# , but a companion volume. Nothing in the first volume is out of date, so please encourage your accounts to keep stock of both volumes.

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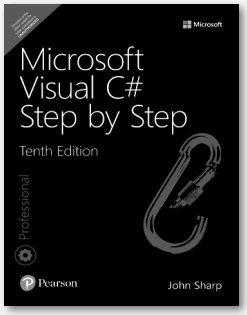
VISUAL BASIC 2005/2008/2010



Microsoft Visual C# Step by Step,10e

John Sharp

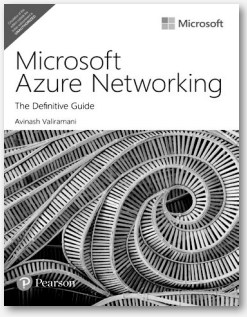
ISBN: **9788119847280** | Pages: **836** | Year: **2023**

About the book

Expand your expertise—and teach yourself the fundamentals of programming the latest version of Visual C# with Visual Studio 2022. This book provides software developers all the guidance, exercises, and code needed to start building responsive, scalable, cloud-connected applications that can run almost anywhere.

Features

- Walk through building modern Windows applications that are both highly responsive and scalable
- Includes exercises and sample projects throughout, with "before" and "after" downloadable code
- For both new and seasoned students of Visual C#



Microsoft Azure Networking: The Definitive Guide

Avinash Valiramani

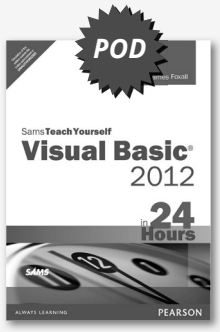
ISBN: **9788119847884** | Pages: **236** | Year: **2023**

About the book

For cloud environments to operate and scale optimally, their networking services must be designed, deployed, and managed well. Now, there's a complete, best-practice guide to doing just that. Writing for everyone involved in delivering Azure workloads and services, leading cloud consultant Avinash Valiramani provides a deep dive and practical field advice for Azure Virtual Networks, Azure VPN Gateways, Azure Load Balancing, Azure Traffic Manager, Azure Firewall, Azure DNS, Azure Bastion, Azure Front Door and more. Whatever your role in delivering efficient, scalable networking services, this guide will help you make the most of your Azure investment.

Features

- Design, deploy, and manage networking workloads to improve efficiency, accelerate cloud transformation, and optimize cloud costs
- An in-depth deep dive into best practices for optimizing Azure performance and scalability
- Practical guidance for applying Azure network services to make the most of students' cloud investments
- Covers virtual networks, gateways, Azure Traffic Manager, Azure ExpressRoute, Web Application Firewall, load balancing, firewalls, Azure Bastion, Azure DNS, and more



Sams Teach Yourself Visual Basic 2012 in 24 Hours Complete Starter Kit

James Foxall

ISBN: **9789332515871** | Pages: **528** | Year: **2013**

About the book

In just 24 sessions of one hour or less, you'll learn how to build complete, reliable, and modern applications with Visual Basic 2012. Using this book's straightforward, step-by-step approach, you'll master the entire process, from navigating VB 2012 to deploying finished solutions. You'll learn how to write efficient object-oriented code; build superior user interfaces; work with graphics, text, and databases; and even control external applications. Each lesson builds on what you've already learned, giving you a strong, practical foundation for success!

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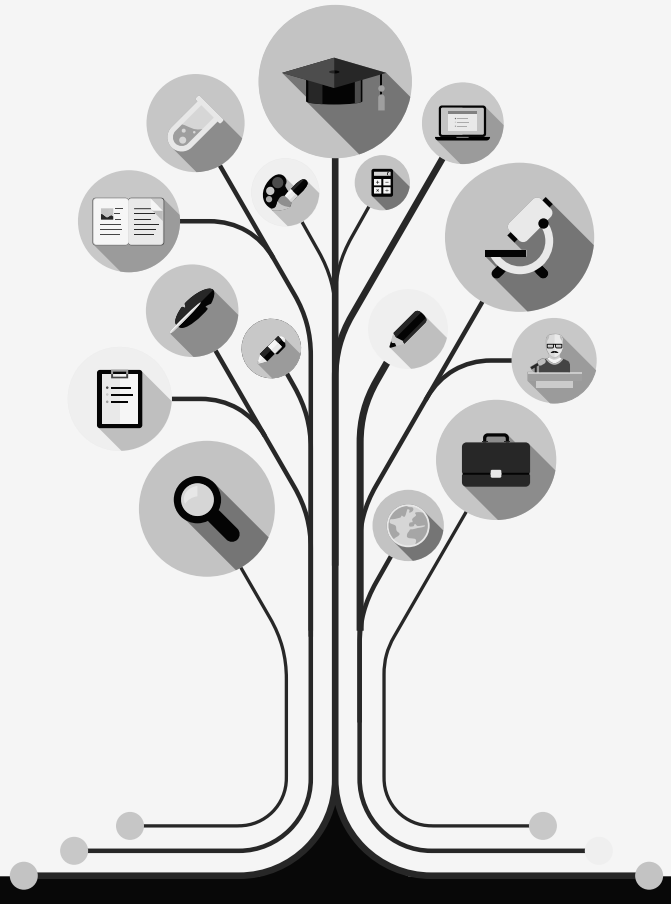
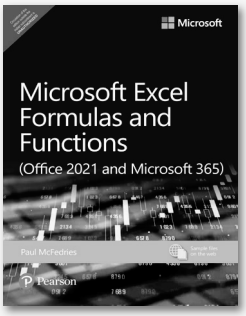


Windows

Office

MICROSOFT OFFICE 2021



Microsoft Excel Formulas and Functions (Office 2021 and Microsoft 365)

Paul McFedries

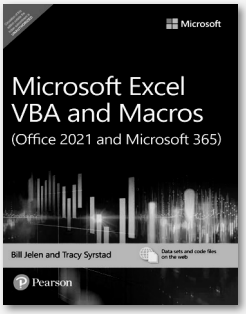
ISBN: **9788119847372** | Pages: **508** | Year: **2023**

About the book

The Use Excel 365 and Excel 2021 core features to build spreadsheets that solve business problems and deliver reliable answers. Drawing on his unsurpassed experience, Paul McFedries helps you make the most of formulas and functions, including recent improvements ranging from dynamic arrays to XLOOKUP and LET. McFedries step-by-step projects walk you through handling key tasks, from building timesheets to projecting cash flow and aging receivables. His practical examples and clear instructions demystify intermediate-to-advanced-level formula construction, and help you leverage Excels most useful functions in your everyday work.

Features

- Improve business analyses by adding intelligence and knowledge to their models
- Replace cumbersome formulas with convenient predefined functions
- Radically simplify complex calculations with Office 365's new dynamic arrays
- Use conditional formatting to reveal anomalies, problems, or opportunities
- Calculate loan payments, interest costs, terms, and amortization schedules
- Project the future value of investments, and plan to achieve investment goals
- Master essential discounting and cash-flow analysis tools, including net present value and internal rate of return
- Sort, filter, and analyze tabular data, from customers to inventory
- Easily analyze huge data sets with PivotTable calculations



Microsoft Excel VBA and Macros (Office 2021 and Microsoft 365)

Bill Jelen, Tracy Syrstad

ISBN: **9788119847006** | Pages: **636** | Year: **2023**

About the book

Use this guide to automate virtually any routine Excel task: save yourself hours, days, maybe even weeks. Make Excel do things you thought were impossible, discover macro techniques you wont find anywhere else, and create automated reports that are amazingly powerful. Bill Jelen and Tracy Syrstad help you instantly visualize information to make it actionable; capture data from anywhere, and use it anywhere; and automate the best new features in Microsoft Excel. Youll find simple, step-by-step instructions, real-world case studies, and 50 workbooks packed with examples and complete, easy-to-adapt solutions.

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Features
- The fastest, best way to go beyond the Macro Recorder and move up the Excel VBA learning curve
- Shows how to automate powerful new Excel features for analysis, formatting, sharing, and presentation
- Includes the best practical explanation of object-oriented programming for non-programmers ever written!

Microsoft Office Step by Step (Office 2021 and Microsoft 365)

Joan Lambert, Curtis Frye

ISBN: **9788119847341** | Pages: **564** | Year: **2023**

About the book
This is learning made easy. Get more done quickly with Microsoft Word, Excel, PowerPoint, and Outlook. Jump in wherever you need answersbrisk lessons and detailed screenshots show you exactly what to do, step by step.
- Discover new time-savers and usability improvements for Word, Excel, PowerPoint, and Outlook
- Format and organize high-impact documents and use Words enhanced coauthoring tools
- Build powerful, reliable Excel worksheets and analyze complex data sets
- Prepare highly effective presentations with PowerPoints newest visual tools
- Improve your productivity with Outlook email, scheduling, and contacts

Features
- Build exactly the skills you need working at your own pace through many easy-to-follow lessons and skill-building exercises
- Features up-to-the minute interior design, making learning easier than ever
- Covers the key components of OfficeWord, Excel, PowerPoint, and Outlook
- Easily analyze huge data sets with PivotTable calculations

MICROSOFT OFFICE 2019

Microsoft Word 2019 Step by Step

Joan Lambert

ISBN: **9789353945497** | Pages: **676** | Year: **2022**

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About the book
The quick way to learn Microsoft Word 2019!
- Get easy-to-follow guidance from a certified Microsoft Office Specialist Master
- Learn and practice new skills while working with sample content, or look up specific procedures
- Create visually appealing documents for school, business, community, or personal purposes
- Use built-in tools to capture and edit graphics
- Present data in tables, diagrams, and charts
- Track and compile reference materials
- Manage document collaboration and review
- Fix privacy, accessibility, and compatibility issues
- Supercharge your efficiency by creating custom styles, themes, and templates

Features
- Experience learning made easy-and quickly teach yourself how to create compelling presentations with Word 2019
- Easy lessons for essential tasks
- Skill-building practice files

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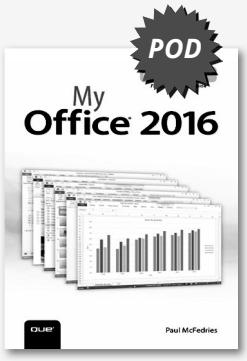
MICROSOFT OFFICE 2016



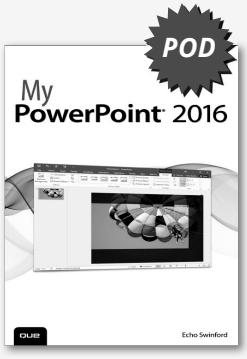
My Office 2016

Paul McFedries

ISBN: **9789332582781** | Pages: **432** | Year: **2017**

About the book

My Office 2016 introduces readers to this new version of the suite and shows them how to get the most out of the apps. The book clearly explains what to expect from the new version of Office, what the program limitations are, and discusses best practices for using the apps. My Office 2016 teaches readers how to use Word, Excel, PowerPoint, Outlook, Access, and OneDrive in an easy-to-follow, task-based format.



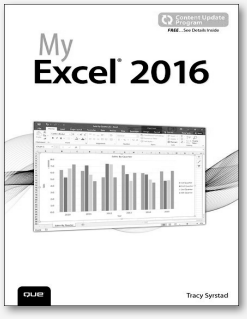
My PowerPoint 2016

Echo Swinford

ISBN: **9789332582767** | Pages: **368** | Year: **2016**

About the book

My PowerPoint 2016 is your must-have companion. Every task is presented step-by-step, using carefully annotated, full-color screenshots, all numbered so there's no chance of getting lost of confused. Everything's clearly organized in modular, self-contained chapters designed to help you get more powerful results from Microsoft's PowerPoint 2016, and get them faster.



My Excel 2016

Tracy Syrstad

ISBN: **9789332582774** | Pages: **480** | Year: **2016**

About the book

My Excel 2016 is your must-have companion for getting most out of Excel 2016. This friendly, quick, full-color, 100% practical tutorial walks you through every task you'll want to do with Excel 2016. Every task is presented step-by-step, using carefully annotated, colorful screenshots, all numbered so there's no chance of getting lost or confused. Everything's clearly organized in modular, self-contained chapters designed to help you get started quickly.

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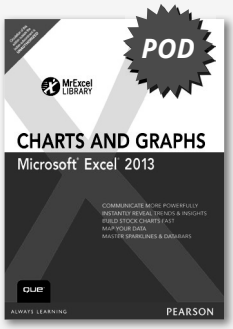
MICROSOFT OFFICE 2013



Excel 2013 Charts and Graphs

Bill Jelen

ISBN: **9789332523944** | Pages: **464** | Year: **2013**

E-Book Available

About the book

Use Excel 2013's radically revamped charting and graphing tools to communicate more clearly, powerfully, and quickly so you drive your message home, and get the decisions and actions you're looking for! This book reveals data visualization techniques you won't find anywhere else and shows you how to use Excel 2013 to create designer-quality charts and graphs that stand out from the crowd. It will help you make the most of new features ranging from Power View to Recommended Charts, and instantly share your insights with anyone, anywhere-even on the Web and social networks. Learning advanced Excel techniques has never been easier. You'll find simple, step-by-step instructions, real-world examples and case studies, and more than a dozen YouTube videos, straight from MrExcel!

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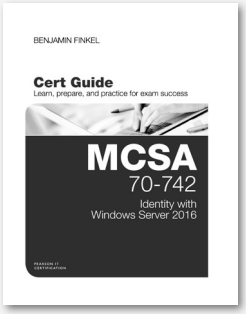
MICROSOFT CERTIFICATION



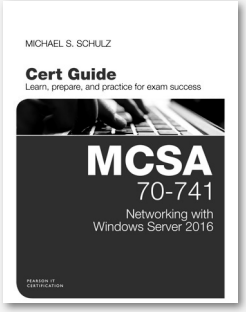
MCSA 70-742 Cert Guide

Benjamin Finkel

ISBN: **9789386873729** | Pages: **540** | Year: **2018**

About the book

The MCSA 70-742 Cert Guide is the most comprehensive study guide available for certification candidates who want to pass Microsoft's 70-742 exam and successfully run Active Directory and Group Policy on Windows Server 2016 in production environments. With uniquely thorough coverage carefully mapped to the exam's objectives, it brings together all the information and insight students need to succeed on their MCSA 70-742.



MCSA 70-741 Cert Guide: Networking with Windows Server 2016

Michael S Schulz

ISBN: **9789386873736** | Pages: **840** | Year: **2018**

About the book

The MCSA 70-741 Cert Guide is the most comprehensive study guide available for certification candidates who want to pass Microsoft's 70-741 exam and fully leverage Windows Server 2016's most advanced networking services in production environments. With uniquely thorough technical coverage, carefully mapped to the exam's objectives, it brings together all the information and insight students need to succeed on their MCSA 70-741: Networking with Windows Server 2016 exam.

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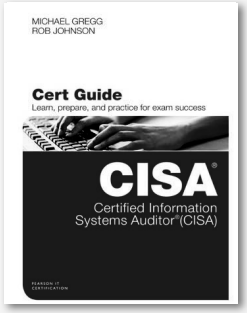
CERTIFIED INFORMATION SYSTEMS AUDITOR CISA



Certified Information Systems Auditor (CISA) Cert Guide

EXCLUSIVELY DISTRIBUTED BY COMPUTER BOOKSHOP

Michael Gregg, Robert Johnson

ISBN: **9789389342222** | Pages: **580** | Year: **2019**

About the book

The world's premier certification for IS audit control, assurance and security professionals, Certified Information Systems Auditor (CISA) demonstrates your expertise in assessing vulnerabilities, reporting on compliance, and instituting enterprise controls. Certified Information Systems Auditor Cert Guide is the comprehensive self-study resource for the brand-newest CISA exam.

Designed for all CISA candidates, this guide covers every exam objective concisely and logically, with extensive teaching features designed to promote retention and understanding.

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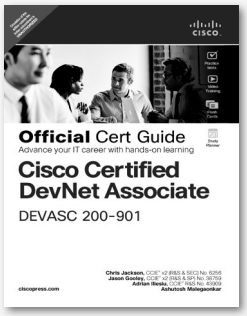
CISCO PRESS



Cisco Certified DevNet Associate DEVASC 200-901 Official Cert Guide

Chris Jackson | Jason Gooley | Adrian Iliesiu | Ashutosh Malegaonkar

ISBN: **9789356060296** | Pages: **668** | Year: **2022**

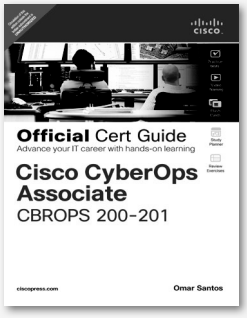
EXCLUSIVELY DISTRIBUTED BY PADMAVATI BOOK DISTRIBUTORS

About the book

DevNet Associate DEVASC 200-901 Official Certification Guide is Cisco's official, comprehensive self-study resource for Cisco's DEVASC 200-901 exam: your pathway to the DevNet Associate Certification demonstrating your knowledge of application development and automation on Cisco platforms. Written by Cisco experts based on Cisco's own internal training, it clearly explains the value of each technique, presents realistic use cases, introduces solution components, illuminates their inner workings, and shows how to execute on what you've learned in practice.

Features

- Authoritative coverage of every DEVASC 200-901 exam topic, with all the context and practical examples you need
- Logical, well-organized, and practical coverage of software development/design, APIs, platforms, application deployment, security, infrastructure, automation, and network fundamentals
- Includes realistic practice tests, plus extensive proven features to help you review more efficiently
- By Cisco technical leaders who are responsible for all Cisco DevNet training and enablement
- For all candidates pursuing Cisco DevNet Associate certification



Cisco CyberOps Associate CBROPS 200-201 Official Cert Guide

Omar Santos

ISBN: **9789356060364** | Pages: **680** | Year: **2022**

About the book

Cisco CyberOps Associate CBROPS 200-201 Official Cert Guide is Cisco's official, comprehensive self-study resource for this exam. Designed for all exam candidates, it covers every exam objective concisely and logically, with extensive teaching features that promote retention and understanding.

Features

- Authoritative coverage of every Understanding Cisco Cybersecurity Operations Fundamentals (200-201 CBROPS) exam topic, with all the context and practical examples you need to succeed
- Logical, well-organized, and practical coverage of "defending and guarding the castle": security concepts, monitoring, host-based analysis, network intrusion analysis, and policies/procedures
- For the consolidated exam you must pass to earn your Cisco Certified CyberOps Associate credential
- Includes realistic practice tests, plus extensive proven features to help you review more efficiently
- By one of the world's leading experts in Cisco security technologies

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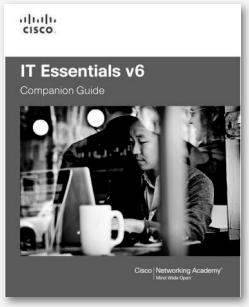


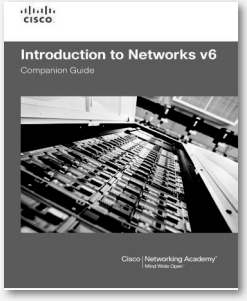
IT Essentials Companion Guide v6, 6e

Cisco Networking Academy Program

ISBN: **9789353941864** | Pages: **928** | Year: **2020**

About the book

The Companion Guide is designed as a supplemental textbook for the Networking Academy course. The purpose for this textbook is to off er students a portable desk reference of the course content to use anytime anywhere as a study aid. The chapter content will align 1:1 to the online course module topics, but not necessarily word-for-word. The contributing author has extensive classroom experience and will present the course material in the Companion Guide in a comprehensive manner, providing his own examples where necessary to augment a student's understanding of the course material.



Introduction to Networks v6 Companion Guide

Cisco Networking Academy Program

ISBN: **9789353941901** | Pages: **698** | Year: **2020**

About the book

Introduction to Networks Companion Guide v6 is the official supplemental textbook for the Introduction to Networks course in the Cisco® Networking Academy® CCNA® Routing and Switching curriculum. The course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

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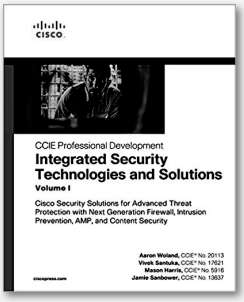


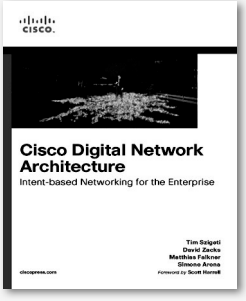
Integrated Security Technologies and Solutions - Volume I: Cisco Security Solutions for Advanced Threat Protection with Next Generation Firewall, Intrusion Prevention, AMP, and Content Security

Aaron Woland | Vivek Santuka | Mason Harris | Jamie Sanbower

ISBN: **9789389552287** | Pages: **592** | Year: **2019**

About the book

Integrated Security Technologies and Solutions — Volume I off ers one-stop expertlevel instruction in security design, deployment, integration, and support methodologies to help security professionals manage complex solutions and prepare for their CCIE exams. It will help security pros succeed in their day-to-day jobs and also get ready for their CCIE Security written and lab exams.



Cisco Digital Network Architecture: Intent-based Networking for the Enterprise

Tim Szigeti | David Zacks | Matthias Falkner | Simone Arena

ISBN: **9788194282563** | Pages: **800** | Year: **2019**

E-Book Available

About the book

The complete guide to transforming enterprise networks with Cisco DNA

Investigating the Cyber Breach : The Digital Forensics Guide for the Network Engineer

Joseph Muniz

ISBN: **9789353068462** | Pages: **464** | Year: **2019**

About the book

Breach detection is one of the hottest topics in cyber security. As more devices become Internet capable, more systems become targets. This in turn increases the need for digital defenses meaning the intended audience will continue to grow and expand across all business sectors. This book is a guide for various levels of technical competencies. Unlike the very few books on this topic, this book will be developed as a guide that can be easily applied to any organization's business practice.

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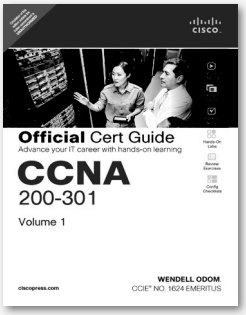
OFFICIAL EXAM CERTIFICATION GUIDES



CCNA 200-301 Official Cert Guide, Volume 1

Wendell Odom

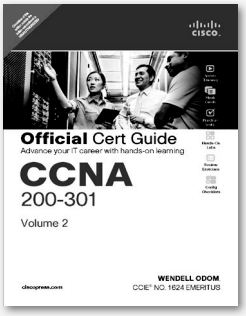
E-Book Available

ISBN: **9789353945503** | Pages: **856** | Year: **2020**

About the book

CCNA 200-301 Official Cert Guide presents students with an organized test-preparation routine through the use of proven series elements and techniques. Brief quizzes open each chapter and enable readers to decide how much time is needed to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help drill on key concepts readers must know thoroughly.

- Master Cisco CCNA 200-301 exam topics
- Assess your knowledge with chapter-opening quizzes
- Review key concepts with exam preparation tasks
- Practice with realistic exam questions in the online supplement



CCNA 200-301 Official Cert Guide, Volume 2

Wendell Odom

E-Book Available

ISBN: **9789353946173** | Pages: **624** | Year: **2020**

About the book

CCNA 200-301 Official Cert Guide presents students with an organized test-preparation routine through the use of proven series elements and techniques. Brief quizzes open each chapter and enable readers to decide how much time is needed to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help drill on key concepts readers must know thoroughly.

- Master Cisco CCNA 200-301 exam topics
- Assess your knowledge with chapter-opening quizzes
- Review key concepts with exam preparation tasks
- Practice with realistic exam questions in the online supplement

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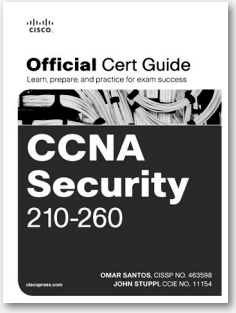
OFFICIAL CERTIFICATION GUIDES



CCNA Security 210-260 Official Cert Guide

Omar Santos

ISBN: **9789332570382** | Pages: **608** | Year: **2016**

E-Book Available

About the book

The CCNA Security 200-260 Official Cert Guide is a complete guide covering all the material presented in the CCNA Security 200-260 exam. It is meant to help network security professionals prepare for the CCNA Security certification exam and also improve their awareness and knowledge of network security. The book uses several key practices and methodologies to help the reader discover the exam topics for which they need more review. The goal is not to try to help the reader pass the exams only by memorization, but by truly learning and understanding the topics.

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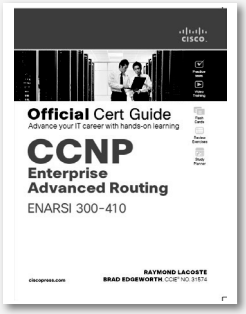
OFFICIAL EXAM CERTIFICATION GUIDES



CCNP Enterprise Advanced Routing ENARSI 300-410 Official Cert Guide

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PADMAVATI BOOK DISTRIBUTORS

Raymond Lacoste | Bradley Edgeworth

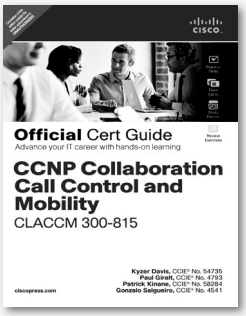
ISBN: **9789356060142** | Pages: **1044** | Year: **2022**

About the book

This is Cisco's official, comprehensive self-study resource for preparing for the ENARSI 300-410 exam, covering implementing and troubleshooting advanced routing technologies and services including Layer 3, VPN services, infrastructure security, infrastructure services, and infrastructure automation. Cisco technology experts Raymond Lacoste and Brad Edgeworth cover every objective concisely and logically, with extensive teaching features designed to promote retention and understanding.

Features

- Authoritative coverage of every Implementing Cisco Enterprise Advanced Routing and Services (ENARSI 300-410) exam topic, with all the context and practical examples you need to succeed
- Logical, well-organized, and practical coverage of implementing Layer 3, VPN services, and infrastructure security, services, and automation
- Includes realistic practice tests, plus extensive proven features to help students review more efficiently



CCNP Collaboration CLACCM 300-815 Cert Guide

Kyzer Davis | Paul Giralt | Patrick Kinane | Gonzalo Salgueiro

ISBN: **9789356060289** | Pages: **688** | Year: **2022**

About the book

CCNP Collaboration CLACCM #300-815 Official Cert Guide is Cisco's official, comprehensive self-study resource for Cisco's CLACCM #300-815 exam (Implementing Cisco Advanced Call Control and Mobility Services), part of today's pathway to the CCNP Collaboration credential. It will thoroughly prepare network professionals to consolidate communications infrastructure into scalable, portable, and secure collaboration solutions using Cisco's advanced call control and mobility services.

Features

- Authoritative coverage of every CLACCM 300-815 exam topic, with all the context and practical examples you need
- Logical, well-organized, and practical coverage of SIP/H.323 session and media establishment; CUBE dial-planning; CUCM conferencing and mobility; CUCME IP Phone Registration, features, and SRST; and Cisco Collaboration troubleshooting

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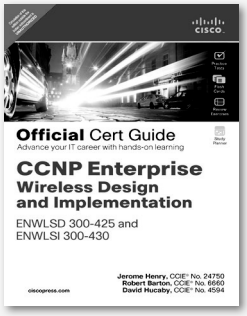
- Includes realistic practice tests, plus extensive proven features to help you review more efficiently
- By leading Cisco subject matter experts specializing in Cisco collaboration technologies
- For all candidates pursuing CCNP Collaboration certifications



CCNP Enterprise Wireless Design and Implementation ENWLSD 300-425 and ENWLSI 300-430 Official Cert Guide: Designing & Implementing Cisco Enterprise Wireless

Jerome Henry | Robert Barton | David Hucaby

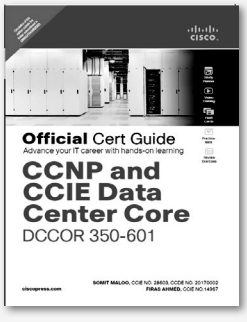
ISBN: **9789356063518** | Pages: **580** | Year: **2022**

About the book

Designed to help you study, prepare for, and pass the CCNP Enterprise ENWLSD 300-425 (design) and ENWLSI 300-430 300-420 ENSLD exams on your first attempt, this guide covers every exam objective concisely and logically, with extensive teaching features designed to promote retention and understanding.

Features

- Authoritative coverage of every ENWLSD 300-425 and ENWLSI 300-430 exam topic, with all the context and practical examples you need
- Logical, well-organized, practical coverage: site surveys, infrastructure, mobility, WLAN high availability, FlexConnect, QoS, multicast, location, security, monitoring, and device hardening
- Covers all wireless network layers; conceptual/theoretical, and practical components; and the entire wireless network lifecycle
- Includes realistic practice tests, plus extensive proven features to help you review more efficiently
- By top experts in Cisco enterprise wireless networking
- For all candidates pursuing CCNP Enterprise certification with a focus on wireless technology



CCNP and CCIE Data Center Core DCCOR 350-601 Official Cert Guide

Somit Maloo | Firas Ahmed

ISBN: **9789390325726** | Pages: **1052** | Year: **2022**

About the book

This is Cisco's official, comprehensive self-study resource for preparing for the DCCOR 300-601 exam, part of Cisco's modern pathways towards CCNP and CCIE certification. Cisco technology experts cover every objective concisely and logically, with extensive teaching features designed to promote retention and understanding. You'll find:

- Pre-chapter quizzes to assess knowledge upfront and focus study more efficiently
- Foundation topics sections that explain concepts and configurations, and link theory to actual configuration commands

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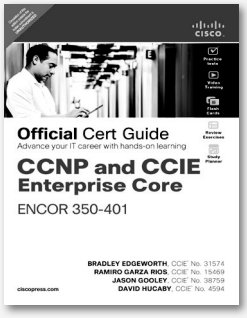
- Key topics sections calling attention to every figure, table, and list that candidates must know
- Exam Preparation sections with additional chapter review features
- Final preparation chapter providing tools and a complete final study plan
- Customizable online practice tests

Features

- Authoritative coverage of every Implementing Cisco Data Center Core Technologies (DCCOR 300-601) exam topic, with all the context and practical examples you need to succeed
- Logical, well-organized, and practical coverage of implementing core data center technologies, including network, compute, storage networking, automation, and security
- Includes realistic practice tests, plus extensive proven features to help you review more efficiently
- Ideal for Cisco data center professionals pursuing CCNP or CCIE certification
- Two leading experts in Cisco data center technologies help you improve your data center skills to gain a competitive edge



CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide

Bradley Edgeworth | Ramiro Garza Rios | David Hucaby | Jason Gooley

ISBN: **9789390531882** | Pages: **1020** | Year: **2022**

About the book

CCNP Enterprise Core ENCOR 300-401 Official Cert Guide is a comprehensive self-study tool for preparing for the new ENCOR exam. Complete coverage of all exam topics as posted on the exam topic blueprint ensures students will arrive at a thorough understanding of what they need to master to succeed on the exam. The book follows a logical organization of the ENCOR exam objectives. Material is presented in a concise manner, focusing on increasing readers' retention and recall of exam topics. Readers will organize their exam preparation through the use of the consistent features in these chapters.

Features

- Pre-chapter quiz – These quizzes allow readers to assess their knowledge of the chapter content and decide how much time to spend on any given section.
- Foundation Topics – These sections make up the majority of the page count, explaining concepts, configurations, with emphasis on the theory and concepts, and with linking the theory to the meaning of the configuration commands.
- Key Topics – Inside the Foundation Topics sections, every figure, table, or list that should absolutely be understood and remembered for the exam is noted with the words "Key Topic" in the margin. This tool allows the reader to quickly review the most important details in each chapter.
- Exam Preparation – This ending section of each chapter includes three additional features for review and study, all designed to help the reader remember the details as well as to get more depth. Readers will be instructed to review key topics from the chapter, complete tables and lists from memory, and define key terms.
- Final Preparation Chapter—This final chapter details a set of tools and a study plan to help readers complete their preparation for the exams.

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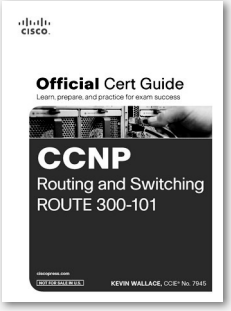


CCNP Routing and Switching ROUTE 300-101 Official Cert Guide

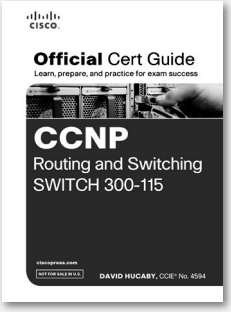
Kevin Wallace

E-Book Available

ISBN: **9789332543485** | Pages: **880** | Year: **2014**

About the book

CCNP Routing and Switching ROUTE 300-101 Official Cert Guide is a comprehensive self-study tool for preparing for the new ROUTE exam. Complete coverage of all exam topics as posted on the exam topic blueprint ensures readers will arrive at a thorough understanding of what they need to master to succeed on the exam. The book follows a logical organization of the ROUTE exam objectives. Material is presented in a concise manner, focusing on increasing readers' retention and recall of exam topics. Readers will organize their exam preparation through the use of the consistent features in these chapters.



CCNP Routing and Switching SWITCH 300-115 Official Cert Guide

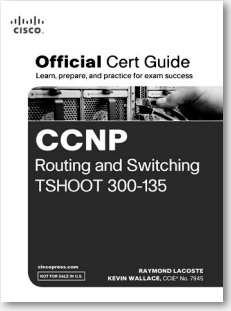
David Hucaby

E-Book Available

ISBN: **9789332543492** | Pages: **560** | Year: **2014**

About the book

CCNP Routing and Switching SWITCH 300-115 Official Cert Guide is a comprehensive self-study tool for preparing for the new SWITCH exam. Complete coverage of all exam topics as posted on the exam topic blueprint ensures readers will arrive at a thorough understanding of what they need to master to succeed on the exam. The book follows a logical organization of the SWITCH exam objectives. Material is presented in a concise manner, focusing on increasing readers' retention and recall of exam topics. Readers will organize their exam preparation through the use of the consistent features in these chapters.



CCNP Routing and Switching TSHOOT 300-135 Official Cert Guide

Kevin Wallace, Raymond Lacoste

E-Book Available

ISBN: **9789332543508** | Pages: **1024** | Year: **2014**

About the book

CCNP Routing and Switching TSHOOT 300-135 Official Cert Guide is a comprehensive self-study tool for preparing for the new TSHOOT exam. Complete coverage of all exam topics as posted on the exam topic blueprint ensures readers will arrive at a thorough understanding of what they need to master to succeed on the exam. The book follows a logical organization of the TSHOOT exam objectives. Material is presented in a concise manner, focusing on increasing readers' retention and recall of exam topics.

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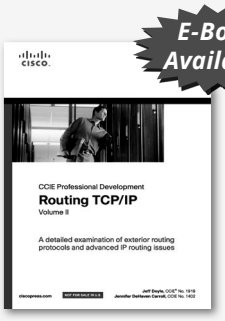
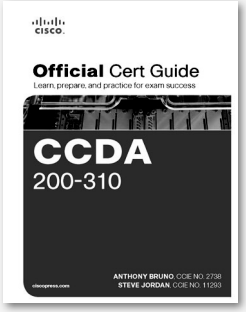
PROFESSIONAL DEVELOPMENT SERIES



ISBN: **9789352865772**

OFFICIAL EXAM CERTIFICATION GUIDES



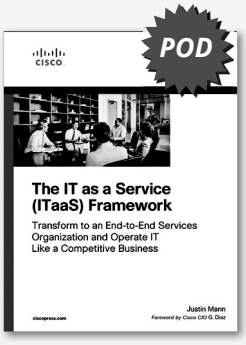
CCDA 200-310 Official Cert Guide, 5e

Anthony Bruno, Steve Jordan

ISBN: **9789332581258** | Pages: **816** | Year: **2016**

About the book

CCDA 200-310 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly.



The IT as a Service (ITaaS) Framework

Justin Mann

ISBN: **9789353061746** | Pages: **320** | Year: **2018**

E-Book Available

About the book

IT as a Service (ITaaS) Framework, The: Transform to an End-to-End Services Organization and Operate IT like a Competitive Business.

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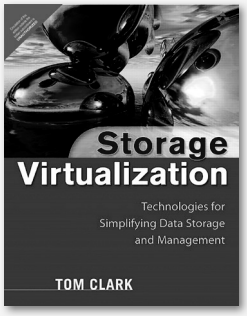


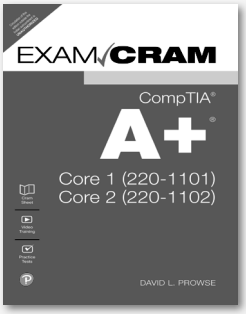
Storage Virtualization

Tom Clark

ISBN: **9789353061753** | Pages: **264** | Year: **2018**

About the book

Storage virtualization is a new field that has considerable interest for information technology managers. There is currently no single work that provides an objective, technical explanation of virtualization technologies. This book examines new storage virtualization technologies that automate data storage processes, including data placement, replication, and back-up. Storage virtualization is designed to ease storage management by presenting your storage network's physical assets in a logical form.



CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Cram

David L. Prowse

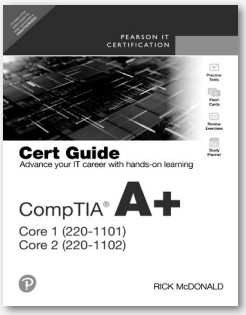
ISBN: **9788119847365** | Pages: **1088** | Year: **2023**

About the book

CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Cram is an all-inclusive study guide designed to help you pass the updated versions of the CompTIA A+ exams. Prepare for test day success with complete coverage of exam objectives and topics, plus hundreds of realistic practice questions. Extensive prep tools include quizzes, Exam Alerts, and our essential last-minute review CramSheet. The powerful Pearson Test Prep practice test software provides real-time assessment and feedback with four complete exams.

Features

- Chapters that map directly to the exam objectives
- Comprehensive foundational learning on all topics covered on the exam
- An extensive collection of practice questions
- The Cram Sheet tear-out card including tips, acronyms, and memory joggers not available anywhere elseperfect for last-minute study



CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Cert Guide

Rick McDonald

ISBN: **9788119847563** | Pages: **912** | Year: **2023**

About the book

Trust the best-selling Cert Guide series from Pearson IT Certification to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam.

CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Cert Guide presents you with an organized test preparation routine using proven series elements and techniques. Do I Know This Already? quizzes open each chapter and enable you to decide how much time you need to spend on each section.

Features

- Understand and apply CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) exam topics
- Assess your knowledge with chapter-opening quizzes
- Review key concepts with exam preparation tasks
- Practice with realistic exam questions in the practice test software

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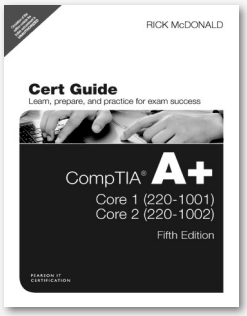


CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) Cert Guide,5e

Rick McDonald

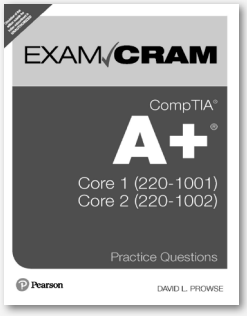
ISBN: **9789353948993** | Pages: **1040** | Year: **2022**

About the book

In this best-of-breed study guide, a leading expert helps students master all the topics they need to know to succeed on their CompTIA exams and move into a successful career as an IT technician. The concise, focused approach explains every exam objective from a real-world perspective, helping students quickly identify weaknesses and retain everything they need to know.

Features

- Master all the A+ exam topics in this comprehensive learning and preparation guide, fully updated for the new objectives
- Gain a real-world understanding of how to apply your knowledge, and use the book as a workplace reference guide
- Online resources -- including a test bank, an Instructor's Guide, and lecture slides -- help instructors bring this content into their course



CompTIA A+ Practice Questions Exam Cram Core 1 (220-1001) and Core 2 (220-1002)

David L. Prowse

ISBN: **9789353949464** | Pages: **288** | Year: **2022**

About the book

The CompTIA A+ Practice Questions Exam Cram provides readers with 700 practice test questions as well as complete answer explanations, giving readers the perfect complementary tool for their A+ studies. The book also features relevant Exam Notes to help readers score better on the tests, plus the ever popular "Cram Sheet" tearcard, which is used for last-minute topical review. As an additional preparation tool, readers will have exclusive access to a web-delivered test engine with even more question for exam practice and preparation feedback. With The A+ Exam undergoing a refresh in December 2015, candidates will need up-do-date materials to prepare them for these exams. The CompTIA A+ Practice Questions Exam Cram, in combination with the CompTIA A+ Exam Cram or the CompTIA A+ Cert Guide, provides a perfect preparation path to success. The book addresses the topics in both of the A+ exams.

Features

- Practice with 700 sample test questions covering both A+ Exams
- Includes detailed explanations of correct and incorrect answers
- Features relevant Exam Notes to help readers score better on the tests
- Includes the Cram Sheet tear-out card for last-minute review

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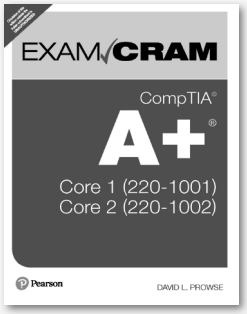


CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) Exam Cram

David L. Prowse

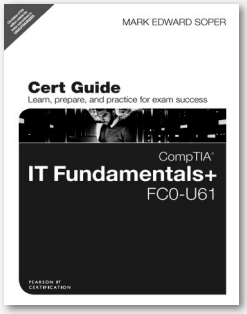
ISBN: **9789353949488** | Pages: **960** | Year: **2022**

About the book

This is the perfect study guide to help you pass CompTIA®'s new A+® Core 1: 220-1001 and Core 2: 220-1002 exams. It provides coverage and practice questions for every exam topic, including substantial new coverage of Windows 10, as well as new PC hardware, tablets, smartphones, macOS, Linux, cloud computing, and professional-level networking and security. Extensive prep tools include quizzes, Exam Alerts, our great last-minute Cram Sheet, two full practice exams in the print book and an additional two exams in the test engine, plus complete real-time practice and feedback through Pearson's state-of-the-art test engine. You'll also find fourteen exclusive author-created Real World Scenario case studies, all linked to simulations or video on our bonus content site.

Features

- Fully revised for the new objectives announced by CompTIA
- Gain exclusive access to an innovative web-delivered test engine that provides testing practice and preparation feedback
- Review A+ exam topics with the popular Cram Sheet and the other book features



CompTIA IT Fundamentals+ FC0-U61 Cert Mark Edward Soper

Mark Edward Soper

ISBN: **9789389552317** | Pages: **864** | Year: **2022**

About the book

The first step towards an IT career, and the clear pathway to more advanced certifications, CompTIA IT Fundamentals (ITF+) demonstrates students' understanding of basic IT concepts, terminology, infrastructure, applications, software development concepts, database fundamentals, and security. CompTIA IT Fundamentals Cert Guide is the comprehensive resource for the updated FC0-U61 version of this exam.

Designed for all CompTIA IT Fundamentals candidates, this full-color guide covers every exam objective concisely and logically, with extensive teaching features designed to promote retention and understanding.

Features

- Complete assessment, review, and practice for the new CompTIA IT Fundamentals (ITF+ FC0-U61) exam
- Authoritative, full-color coverage of every CompTIA IT Fundamentals exam topic, with all the context and practical examples you need to succeed
- Logical, well-organized, and practical coverage of IT concepts and terminology, infrastructure, applications, software development concepts, database fundamentals, and security
- Includes two realistic practice tests, plus extensive proven features to help you review more efficiently

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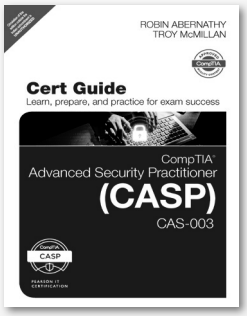


CompTIA Advanced Security Practitioner (CASP) CAS-003 Cert Guide, 2e

Robin Abernathy | Troy McMillan

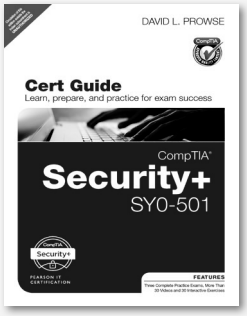
ISBN: **9789390394685** | Pages: **904** | Year: **2022**

About the book

The book presents an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help students drill on key concepts they must know thoroughly. Review questions help them assess their knowledge, and a final preparation chapter guides them through tools and resources to help them craft your final study plan.

Features

- Master CompTIA Advanced Security Practitioner (CASP) CAS-003 exam topics
- Assess your knowledge with chapter-ending quizzes
- Review key concepts with exam preparation tasks
- Practice with unique sets of exam-realistic practice questions



CompTIA Security+ SY0-501 Cert Guide, 4e

David L. Prowse

ISBN: **9789390394869** | Pages: **848** | Year: **2022**

About the book

This is the most comprehensive core study tool for CompTIA's latest Security+ exam. Perfect for every candidate preparing for this challenging exam, its comprehensive coverage offers all the information and insight readers need to succeed. From start to finish, the book has been organized and edited to improve retention and help network and security professionals focus on areas where they need the most assistance.

Features

- Case studies and hands-on video exercises in each chapter
- Three full practice tests based on the real Security + exam
- New! Video explanations of all answers in practice tests
- Memory tables, study strategies, tips, cautions, key terms, troubleshooting scenarios, last-minute review tearsheet, and more

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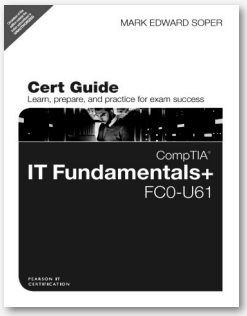


CompTIA IT Fundamentals+ FC0-U61 Cert Guide

Mark Edward Soper

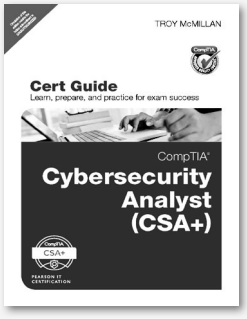
ISBN: **9789389552317** | Pages: **864** | Year: **2019**

About the book

The first step towards an IT career, and the clear pathway to more advanced certifications, CompTIA IT Fundamentals (ITF+) demonstrates students' understanding of basic IT concepts, terminology, infrastructure, applications, software development concepts, database fundamentals, and security. CompTIA IT Fundamentals Cert Guide is the comprehensive resource for the updated FC0-U61 version of this exam.

Features

- Complete assessment, review, and practice for the new CompTIA IT Fundamentals (FC0-U61) exam
- Authoritative, coverage of every CompTIA IT Fundamentals exam topic, with all the context and practical examples you need to succeed
- Logical, well-organised, and practical coverage of IT concepts and terminology, infrastructure, applications, software development concepts, database fundamentals, and security
- Includes two realistic practice tests, plus extensive proven features to help you review more efficiently



CompTIA Cybersecurity Analyst (CySA+) Cert Guide

Troy McMillan

ISBN: **9788194282525** | Pages: **592** | Year: **2019**

About the book

One million cybersecurity jobs will open this year, and many will require strong knowledge and skills in cybersecurity analysis. CompTIA's new vendor-neutral Cybersecurity Analyst (CSA+) IT professional validates the knowledge and skills you'll need to qualify for these opportunities. CompTIA Cybersecurity Analyst+ Cert Guide is the comprehensive self-study resource for the brandnew CSA+ (CSO-001) exam.

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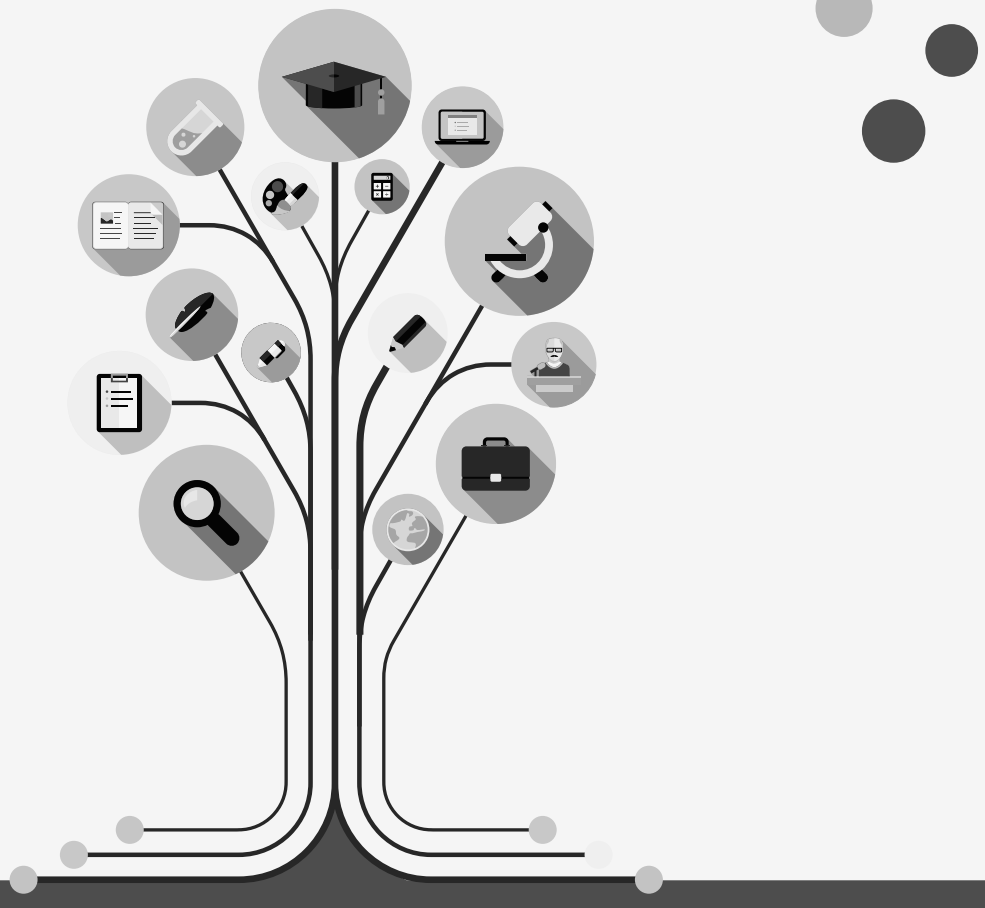

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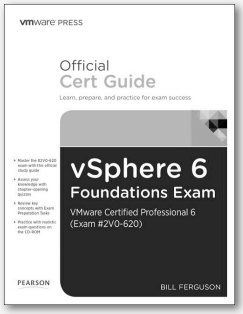

vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620)

Bill Ferguson

ISBN: **9789332582729** | Pages: **752** | Year: **2016**

About the book

vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620) presents you with an organized test-preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy.

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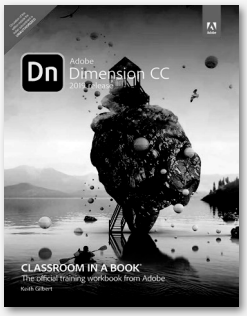


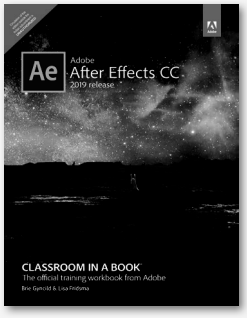
Adobe Dimension CC Classroom in a Book (2019 Release)

Keith Gilbert

ISBN: **9789389552058** | Pages: **288** | Year: **2019**

About the book

The exciting new Adobe Dimension CC empowers graphic designers to create high-quality photorealistic imagery using 2D and 3D assets -- and if you have an Adobe Creative Cloud subscription, it's already included. Now, Adobe Dimension CC Classroom in a Book off ers complete hands-on training to help you master it quickly and easily. Straight from Adobe Press, this is the latest in our best-selling series of offi cial Adobe software training guides -- packed with self-paced lessons and downloadable fi les designed by Adobe training experts. Each chapter contains a project that builds on your growing knowledge of the program, and end-of-chapter review questions reinforce each lesson.



Adobe After Effects CC Classroom in a Book (2019 Release)

Lisa Fridsma | Brie Gyncild

ISBN: **9789389552904** | Pages: **416** | Year: **2019**

E-Book Available

About the book

Adobe After Effects CC Classroom in a Book (2019 release) from Adobe Press is the fastest, easiest, most comprehensive way to learn Adobe After Effects CC (2019 release). The 15 project-based lessons in this book show users step-by-step the key techniques for working in After Effects. Learn how to create, manipulate, and optimize motion graphics for film, video, DVD, the web, and mobile devices. Gain hands-on experience animating text and images, customizing a wide range of effects, tracking and syncing content, rotoscoping, distorting and warping images and video, and correcting color. Create Motion Graphics templates in After Effects so colleagues can make specific edits in Premiere Pro without accidentally changing other critical settings. Learn to create 3D content with both After Eff ects and Maxon Cinema 4D Lite (included with the software).

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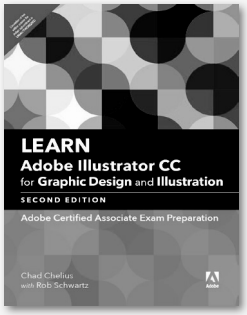


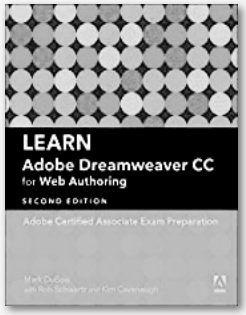
Learn Adobe Illustrator CC for Graphic Design and Illustration: Adobe Certified Associate Exam Preparation, 2e

Chad Chelius | Rob Schwartz

ISBN: **9789389552393** | Pages: **240** | Year: **2019**

About the book

This study guide uses text integrated with video to help learners gain real-world skills that will get them started in their career in graphic design and/or illustration and lays the foundation for taking the Illustrator Adobe Certified Associate (ACA) exam. A mix of project-based lessons, videos, and quizzes throughout prepares beginning learners for an entry-level position in a competitive job market.



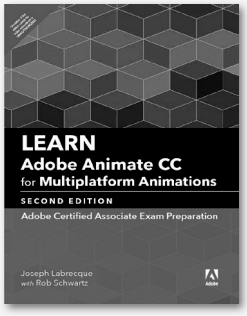
Learn Adobe Dreamweaver CC for Web Authoring: Adobe Certified Associate Exam Preparation, 2e

Mark DuBois | Rob Schwartz | Kim Cavanaugh

ISBN: **9789389552409** | Pages: **304** | Year: **2019**

About the book

This study guide uses text integrated with video to help learners gain real-world skills that will get them started in their career in web design and authoring and lays the foundation for taking the Dreamweaver Adobe Certifi ed Associate (ACA) exam. A mix of project-based lessons, videos, and quizzes throughout prepares beginning learners for an entry-level position in a competitive job market.



Learn Adobe Animate CC for Multiplatform Animations: Adobe Certified Associate Exam Preparation, 2e

Joseph Labrecque | Rob Schwartz

ISBN: **9789389552379** | Pages: **324** | Year: **2019**

E-Book Available

About the book

This study guide uses text integrated with video to help learners gain real-world skills that will get them started in their career in animation and interactive media design and lays the foundation for taking the Adobe Animate Certified Associate (ACA) exam. A mix of project-based lessons, videos, and quizzes throughout prepares beginning learners for an entry-level position in a competitive job market.

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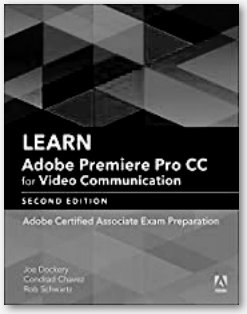


Learn Adobe Premiere Pro CC for Video Communication: Adobe Certified Associate Exam Preparation, 2e

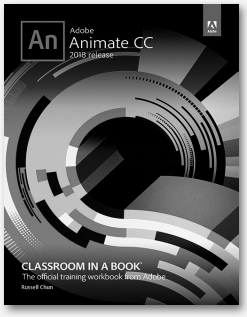
Joe Dockery | Rob Schwartz | Conrad Chavez

ISBN: **9789389552027** | Pages: **316** | Year: **2019**

E-Book Available

About the book

This study guide uses text integrated with video to help learners gain real-world skills that will get them started in their career in planning, shooting, and doing post-production on video projects and lays the foundation for taking the Premiere Pro ACA exam. A mix of project-based lessons, practical videos, and regular assessments throughout prepares beginning learners for an entry-level position in a competitive job market.



Adobe Animate CC Classroom in a Book (2018 release)

Russell Chun

ISBN: **9789352869046** | Pages: **480** | Year: **2018**

About the book

Creative professionals seeking the fastest, easiest, most comprehensive way to learn Adobe Animate choose Adobe Animate CC Classroom in a Book (2018 release) from Adobe Press. The 12 project-based step-by-step lessons in this book show users the key techniques for working in Animate. Adobe Animate CC provides more expressive tools, powerful controls for animation, and robust support for playback across a wide variety of platforms. Learn how to use and create vector-based brushes for painterly effects. Gain more advanced control over complex animations with the Camera tool, and learn to focus the action on different parts of the Stage. Explore the new Layer Depth panel which lets you control the depth level of individual layers, creating a more realistic sense of space.

Support for SVG, WebGL, HTML5 animation and video, and seamless collaboration with other designers and with other Adobe applications through Creative Cloud libraries make Adobe Animate the ideal development environment for creative animation and multimedia.

Features

- Classroom in a Book training for Adobe Animate--the robust and flexible animation tool from Adobe!
- Bestselling Classroom in a Book series is the ideal way for readers to learn how to create high-quality animation and interactivity for the Web using project-based lessons.
- Aimed at beginning users and designed to teach Adobe Animate features, such as designing interactive animations and publishing them on multiple platforms for multiple devices.

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Adobe Illustrator CC Classroom in a Book (2018 release)

Brian Wood

ISBN: **9789352869008** | Pages: **480** | Year: **2018**

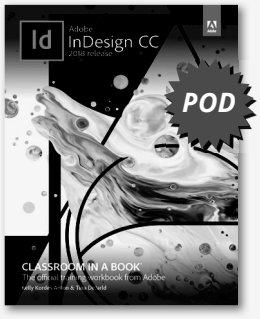
E-Book Available

About the book

Creative professionals seeking the fastest, easiest, most comprehensive way to learn Adobe Illustrator CC (2018 release) choose Adobe Illustrator CC Classroom in a Book (2018 release) from the best-selling series of hands-on software training workbooks from Adobe Press. The 15 project-based lessons show users the key techniques for realizing your creative potential with Adobe Illustrator CC. Following hands-on step-by-step projects, users create logos, illustrations, posters, and more. Explore the new Essentials workspace that makes learning Illustrator even easier. Learn how to use the Shaper tool and Live Shapes along with dynamic symbols to streamline graphics creation. Create website assets and export them in multiple formats to support modern responsive web designs. From exacting illustration to free-form painting, you'll build a strong foundation in Illustrator as you progress through the lessons.

Features

- The best-selling guide to Adobe's powerful illustration program, fully updated for the 2018 release.
- Includes 15 hands-on lessons that use clear, step-by-step instructions with screenshots to teach students how to design compelling graphics using Illustrator CC.
- Online components provided to all students include all lesson files plus video-enhanced Web Edition of the book.
- Classroom in a Book is the official training series from Adobe Systems Inc., developed with the support of Adobe product experts.



Adobe InDesign CC Classroom in a Book (2018 release)

Kelly Kordes Anton, Tina DeJarld

ISBN: **9789352869015** | Pages: **432** | Year: **2018**

About the book

Creative professionals seeking the fastest, easiest, most comprehensive way to learn Adobe InDesign choose Adobe InDesign CC Classroom in a Book (2018 release) from Adobe Press. The 15 project-based step-by-step lessons show users the key techniques for working in InDesign. Designers will build a strong foundation of typographic, page layout, and document-construction skills that will enable them to produce a broad range of print and digital publications—from a simple postcard to an interactive Adobe PDF with form fields. The real-world tasks in this comprehensive book are presented in an easy-to-follow, step-by-step format and are designed to train beginning Adobe InDesign users in the program—from fundamental features to powerful layout and output skills. This book will also help experienced InDesign users elevate their skills, understand best practices, and learn about new features.

Features

- Best-selling, project-based Adobe InDesign guide— now fully revised for version CC (2018 release)
- The official training workbook from Adobe.
- Adobe InDesign CC Classroom in a Book contains 16 lessons that cover the basics and beyond, providing countless tips and techniques to help learners become more productive with the program.

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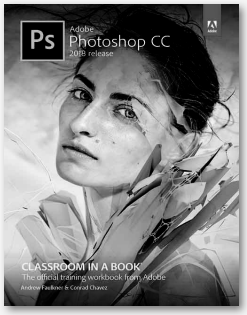
- The online companion files include all the necessary assets for readers to complete the projects featured in each chapter as well as ebook updates when Adobe releases new features for Creative Cloud customers.
- Includes full access to the Web Edition: a Web-based version of the complete ebook enhanced with video and multiple-choice quizzes.



Adobe Photoshop CC Classroom in a Book (2018 release)

Conrad Chavez, Andrew Faulkner

ISBN: **9789352869039** | Pages: **400** | Year: **2018**

About the book

Creative professionals seeking the fastest, easiest, most comprehensive way to learn Adobe Photoshop choose Adobe Photoshop CC Classroom in a Book (2018 release) from Adobe Press. The 15 project-based lessons show key step-by-step techniques for working in Photoshop, including how to correct, enhance, and distort digital images, create image composites, and prepare images for print and the web.

In addition to learning the essential elements of the Photoshop interface, this revised edition for the 2018 release covers features like search capabilities, Content-Aware Crop, Select and Mask, Face-Aware Liquify, designing with multiple artboards, creating and organizing enhanced brush presets, and much more!

Features

- Best-selling book on Adobe Photoshop — now fully revised for version CC (2018 release)
- Comprehensive, project-based lessons teach key concepts for working efficiently with Adobe Photoshop tools, filters, and effects to touch up, modify, and transform images
- Updated and new lessons throughout address new features in Photoshop CC (2018 release)
- Official training series from Adobe Systems Inc., developed with the support of Adobe product experts

Adobe Dreamweaver CC Classroom in a Book (2018 release)

Jim Maivald

ISBN: **9789352869053** | Pages: **432** | Year: **2018**

About the book

Creative professionals seeking the fastest, easiest, most comprehensive way to learn Adobe Dreamweaver CC (2018 release) choose Adobe Dreamweaver CC Classroom in a Book (2018 release) from the best-selling series of hands-on software training workbooks from Adobe Press. The 12 project-based step-by-step lessons in this book show users the key techniques for working in Dreamweaver. Learn how to create webpages for the modern web with a minimum of hand coding incorporate graphics, and text add links to text and images add interactive elements to your sites, such as HTML5-compatible interactivity work with the latest HTML5 and CSS3 code and structures and publish a finished site to the web.

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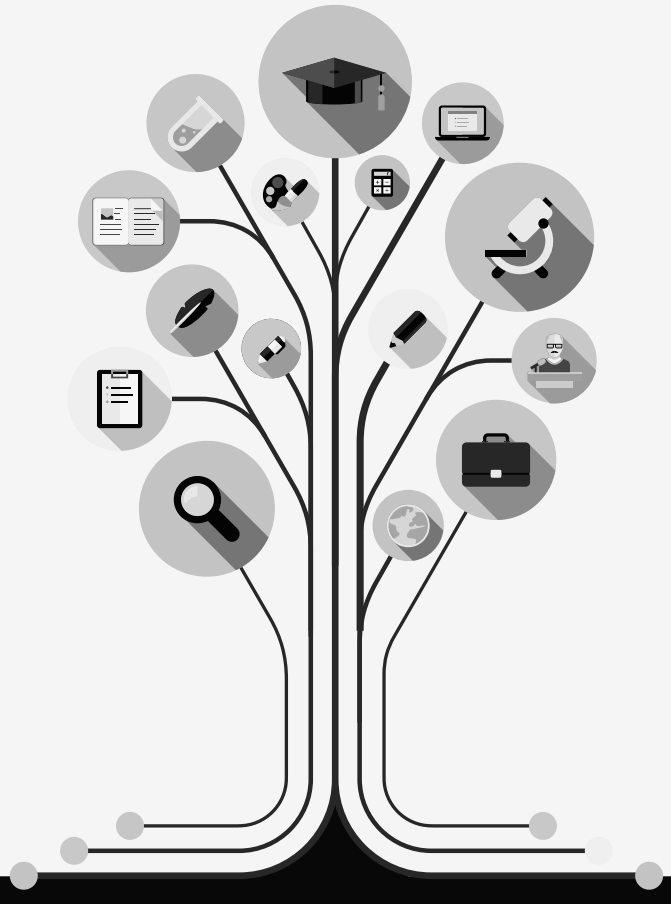
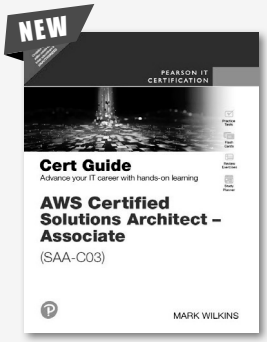


Amazon Web Services



AWS Certified Solutions Architect – Associate (SAA-C03) Cert Guide

Mark Wilkins

E-Book Available

ISBN: **9789361594212** | Pages: **824** | Year: **2024**

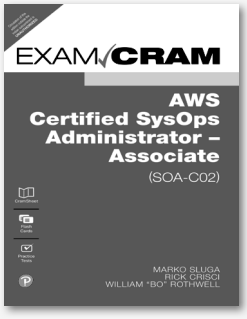
About the book

"AWS Certified Solutions Architect – Associate (SAA-C03) Cert Guide presents you with an organized test preparation routine using proven series elements and techniques. Do I Know This Already? quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly.

- Master AWS Certified Solutions Architect – Associate (SAA-C03) exam topics
- Assess your knowledge with chapter-opening quizzes
- Review key concepts with exam preparation tasks
- Practice with realistic exam questions in the practice test software

Features

- A test-preparation routine proven to help you pass the exams
- Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section
- Chapter-ending Key Topic tables, which help you drill on key concepts you must know thoroughly
- The powerful Pearson Test Prep Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports
- An online, interactive Flash Cards application to help you drill on Key Terms by chapter
- A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies
- Study plan suggestions and templates to help you organize and optimize your study time



AWS Certified SysOps Administrator - Associate (SOA-C02) Exam Cram

Marko Sluga, Richard Crisci, William Rothwell

ISBN: **9788119847495** | Pages: **340** | Year: **2023**

About the book

AWS Certified SysOps Administrator Associate (SOA-C02) Exam Cram is an all-inclusive study guide designed to help you pass the updated version of the AWS Certified SysOps Administrator Associate exam. Prepare for test day success with complete coverage of exam objectives and topics, plus hundreds of realistic practice questions. Extensive prep tools include quizzes, Exam Alerts, and our essential last-minute review CramSheet. The powerful Pearson Test Prep practice software provides real-time assessment and feedback with two complete exams.

Features

- Demonstrate baseline AWS Well-Architected Framework knowledge to support and maintain AWS workloads
- Use AWS monitoring and logging services and remediate issues based on monitoring and availability metrics
- Implement scalability and elasticity for reliability and business continuity
- Use AWS services to provision, deploy, maintain, and automate cloud resources
- Implement and manage security controls to meet compliance policies and requirements

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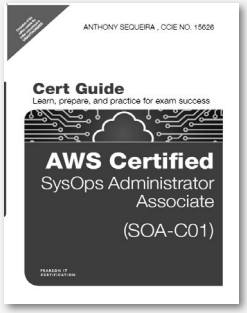
- Implement, configure, and troubleshoot network features and connectivity issues
- Identify and implement cost and performance optimization strategies



AWS Certified SysOps Administrator - Associate (SOA-C01) Cert Guide

Anthony Sequeira

ISBN: **9789390168934** | Pages: **312** | Year: **2022**

About the book

The AWS Certified Sysops Administrator Associate certification demonstrates your expertise in deploying, managing, securing, optimizing, and automating solutions on the world's leading cloud platform, Amazon Web Services. AWS Certified Sysops Administrator Associate Cert Guide is the comprehensive self-study resource for Amazon's valuable new exam. Designed for all AWS Certified Sysops Administrator Associate candidates, this guide covers every exam objective concisely and logically, with extensive teaching features designed to promote retention and understanding.

Features

- uthoritative coverage of every AWS Certified Sysops Administrator exam topic, with all the context and practical examples you need to succeed
- Logical, well-organized, and practical coverage of deploying, managing, securing, optimizing, and automating AWS solutions
- Hands-on labs and real-world examples help students build skills and confidence fast
- Includes two realistic practice tests, plus extensive proven features to help readers review more efficiently

ARTIFICIAL INTELLIGENCE (AI)

NEW

Responsible AI: Best Practices for Creating Trustworthy AI Systems

Qinghua Lu, Liming Zhu, Jon Whittle, Xiwei Xu

E-Book Available

ISBN: **9789361592874** | Pages: **312** | Year: **2024**

About the book

AI systems are solving real-world challenges and transforming industries, but there are serious concerns about how responsibly they operate on behalf of the humans that rely on them. Many ethical principles and guidelines have been proposed for AI systems, but they're often too 'high-level' to be translated into practice. Conversely, AI/ML researchers often focus on algorithmic solutions that are too 'low-level' to adequately address ethics and responsibility. In this timely, practical guide, pioneering AI practitioners bridge these gaps. The authors illuminate issues of AI responsibility across the entire system lifecycle and all system components, offer concrete and actionable guidance for addressing them, and demonstrate these approaches in three detailed case studies.

Features

- Governance mechanisms at industry, organisation, and team levels Development process perspectives, including software engineering best practices for AI System perspectives, including quality attributes, architecture styles, and patterns Techniques for connecting code with data and models, including key tradeoffs Principle-specific techniques for fairness, privacy, and explainability A preview of the future of responsible AI

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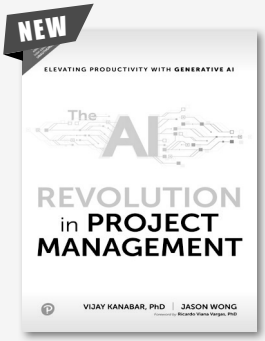


The AI Revolution in Project Management: Elevating Productivity with Generative AI

Vijay Kanabar, Jason Wong

ISBN: **9789361591303** | Pages: **404** | Year: **2024**

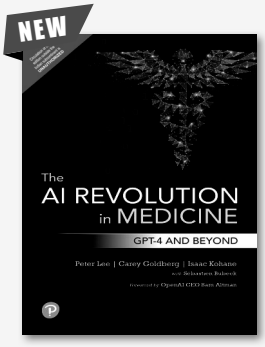
E-Book Available

About the book

In a world where technology is rapidly evolving, the fusion of project management and artificial intelligence stands at the forefront of innovation. The AI Revolution in Project Management delves deep into the transformative power of generative AI tools that promise to reshape industries, and revolutionize how we manage projects. Whether you're looking to build dynamic teams using AI, choose a project development approach, or monitor project performance, this book has got you covered. Each chapter provides insightful narratives and includes a supplemental Technical Guide that provides tips on using the AI technology. With case studies and prompts, the dialogues showcase AI in action, from stakeholder engagement to risk management. Dive in with experts whove spent countless hours using these AI tools in project scenarios to offer a transparent view into generative AI-driven project management.

Features

- How to create prompts that generate meaningful and actionable insights tailored for your projects When to use AI to enhance decision-making, supercharge productivity, and elevate overall project efficiency Which generative AI models and plug-ins to use for specific project scenarios, ensuring seamless integration and maximum efficiency



The AI Revolution in Medicine: GPT-4 and Beyond

Peter Lee, Carey Goldberg, Isaac Kohane

ISBN: **9789361599699** | Pages: **304** | Year: **2024**

E-Book Available

About the book

Just months ago, millions of people were stunned by ChatGPT's amazing abilities -- and its bizarre hallucinations. But that was 2022. GPT-4 is now here: smarter, more accurate, with deeper technical knowledge. GPT-4 and its competitors and followers are on the verge of transforming medicine. But with lives on the line, you need to understand these technologies – stat. What can they do? What can't they do – yet? What shouldn't they ever do? To decide, experience the cutting edge for yourself. Join three insiders who've had months of early access to GPT-4 as they reveal its momentous potential – to improve diagnoses, summarize patient visits, streamline processes, accelerate research, and much more. You'll see real GPT-4 dialogues – unrehearsed and unfiltered, brilliant and blundering alike – all annotated with invaluable context, candid commentary, real risk insights, and up-to-the-minute takeaways.

Features

- Preview a day in the life of a doctor with a true AI assistant. See how AI can enhance doctor-patient encounters at the bedside and beyond. Learn how modern AI works, why it can fail, and how it can be tested to earn trust. Empower patients: improve access and equity, fill gaps in care, and support behavior change. Ask better questions and get better answers with "prompt engineering." Leverage AI to cut waste, uncover fraud, streamline reimbursement, and lower costs. Optimize clinical trials and accelerate cures with AI as a research collaborator. Find the right guardrails and gain crucial insights for regulators and policymakers. Sketch possible futures: What dreams may come next?

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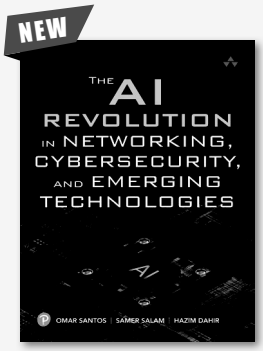

The AI Revolution in Networking, Cybersecurity, and Emerging Technologies

E-Book Available

Omar Santos, Samer Salam, Hazim Dahir

ISBN: **9789361591471** | Pages: **220** | Year: **2024**

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About the book

AI is having a profound impact on nearly every sector of the workforce. Huge professional and financial opportunities await in the key domains of computer networking, cybersecurity, IoT, and cloud computing. The AI Revolution in Networking, Cybersecurity, and Emerging Technologies will give you the edge you need to harness AI for your benefit. Learn how AI can efficiently identify shadow data, fortify security measures, generate predictive analytics in real time, and so much more. In this comprehensive guide, Cisco professionals Omar Santos, Samer Salam, and Hazim Dahir engage you in both AI application and theory through practical case studies and predictions of future trends, which makes this book not just a valuable guide for today, but an indispensable resource for tomorrow.

Features

- Gain industry-specific knowledge from experienced professionals
- Discover new capabilities like self-healing networks and predictive analytics
- Learn how AI can save time by detecting and correcting issues in real time
- Master techniques for security monitoring and alerting
- Understand potential security and privacy pitfalls of using AI, and how to guard against them
- Understand how AI works for you and with you

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Author Index

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9788131776513	A Srinivasan / J Suresh	Cloud Computing: A Practical Approach for Learning & Implementation	630	21
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