



Pearson

# BIOSCIENCE, GEOLOGY, NURSING AND PHARMACY

CATALOGUE  
2 0 1 8



# About Pearson

---

*Pearson is the world's learning company, with presence across 70 countries worldwide. Our unique insights and world-class expertise comes from a long history of working closely with renowned teachers, authors and thought leaders, as a result of which, we have emerged as the preferred choice for millions of teachers and learners across the world.*

*We believe learning opens up opportunities, creates fulfilling careers and hence better lives. We hence collaborate with the best of minds to deliver you class-leading products, spread across the Higher Education and K12 spectrum.*

*Superior learning experience and improved outcomes are at the heart of everything we do. This product is the result of one such effort.*

*Your feedback plays a critical role in the evolution of our products and you can contact us – [reachus@pearson.com](mailto:reachus@pearson.com). We look forward to it.*





## CONTENTS

### AGRICULTURE

» Agriculture.....	3
--------------------	---

### BIOLOGY

» Anatomy & Physiology.....	11
» Animal Science/Zoology .....	16
» General Biology.....	19
» Dictionary of Biology.....	28

### BIOTECHNOLOGY

» Biochemistry.....	31
» Biostatistics.....	33
» Introductory Biotechnology .....	35
» Genetics.....	36
» Ecology .....	41
» Immunology .....	44
» Intellectual Property Rights (Biotech) .....	45
» Microbiology .....	46
» Molecular & Cell Biology .....	50

### GEOLOGY & EARTH SCIENCE

» Geography .....	55
» Oceanography .....	59
» Mineralogy.....	60
» Petrology .....	60

## NURSING

» Biochemistry.....	65
» Emergency & Medical Care .....	66
» Nursing.....	67
» English for Nursing.....	69

## PHARMACY

» Pharmacy.....	73
-----------------	----



## Agriculture

---



## Principles of Crop Production: Theory, Techniques, and Technology, 2/e

 **George Acquaah**

 **768** |  **2015**

### ABOUT THE BOOK

For undergraduate courses in Crop Science. May also be appropriate for Plant Science, and Horticulture courses.

This book provides the most comprehensive, detailed coverage of crop production issues in the United States.

### FEATURES

- **NEW**—Significantly expanded content, with 12 new chapters—Provides crop-specific information for 10 selected field crops and essential coverage of latest developments.
- Makes text suitable for use in preparing for the Crop Certification exams.
- Allows students to understand the distinct techniques and technology associated with production of each crop.
- **NEW**—Over 50 new figures and 40 new charts.
- Enhances the presentation and student comprehension of the text.
- Emphasis on the underlying science of crop production—Views the crop producer as a manager of resources.
- Recognizes the varying backgrounds and geography of students taking this course, provides the “how and why” things are the way they are, and recognizes the business of crop production. Basic principles presented are applicable to anywhere in the world.
- Coverage of latest trends impacting crop production—i.e., sustainable agriculture, organic farming, environmental safety consciousness, etc.
- Gives students an understanding of how crop production is evolving and arms them with information for solid decision making on the job.

### CONTENTS

#### Part I. Underlying Principles

1. Crop Production and Society
2. Plant Morphology
3. Fundamental Plant Growth Processes
4. Plant Growth and Development
5. Crop Improvement
6. Climate and Weather
7. Soil and Land
8. Plant Nutrients and Fertilizers
9. Plant and Soil Water
10. Pests in Crop Production
11. Agricultural Production Systems
12. Organic Crop Production
13. Transgenics in Crop Production
14. Rangeland and Pastures and Their Management

15. Tillage Systems and Farm Energy
16. Seed, Seedling, and Seeding
17. Harvesting and Storage of Crops
18. Marketing and Handling Grain Crops

#### Part II. Commercial Production of Selected Field Crops

19. Wheat (Common)
20. Rice
21. Corn
22. Sorghum
23. Barley
24. Soybean
25. Peanut
26. Cotton
27. Potato
28. Alfalfa

# Horticulture: Principles and Practices, 4/e



George Acquaah



816 |



2015

## ABOUT THE BOOK

For undergraduate courses in Introduction to Horticulture, Introduction to Plant Science, and Principles of Crop Production.

This comprehensive introduction to horticulture as a science, art, and business covers all the essential principles and practices of the field. It discusses aspects pertaining to both indoor and outdoor production and provides sound scientific background of modern horticulture. Vividly illustrated throughout, the emphasis is on the underlying science—including current technology—and how it is applied in practical horticulture. This edition has been significantly revised to include four new

chapters, a reorganized Part 7 and contributions from leading industry professionals.

## FEATURES

- Hallmark Features
- Discusses the science, art, and business of horticulture.
- Helps students develop a broad understanding of all the dimensions of the field, showing how they are interconnected, and expanding their view of the opportunities available.
- Provides a broad overview of basic principles and practices.
- Minimizes regional and national biases and gives consistent treatment to the basics of horticulture.
- Presents materials that are appropriate for both small- and large-scale production.
- Includes coverage of indoor and outdoor production—see Part IV and Part V.
- Familiarizes students with all aspects of horticultural production.
- Blends both science and practice—by discussing plant taxonomy, anatomy, growth environment, physiology, and genetics.
- Introduces students to the role of these disciplines and how they are applied to increase performance.
- Offers an extensive illustration program—featuring 600 photographs and line drawings with comprehensive captions, and numerous detailed tables.
- Provides students with visual reinforcement of concepts that facilitate learning.
- Gives instructors sufficient visuals to support their lectures.

## CONTENTS

### I. The Underlying Science

1. What Is Horticulture?
2. Classifying and Naming Horticultural Products
3. Plant Anatomy
4. Plant Growth Environment
5. Plant Physiology
6. Breeding Horticultural Plants

### II. Protecting Horticultural Plants

7. Biological Enemies of Horticultural Plants
8. Principles and Methods of Disease and Pest Control

### III. Propagating Horticultural Plants

9. Sexual Propagation
10. Asexual Propagation

### IV. Growing Plants Indoors

11. Growing Houseplants
12. Controlled-Environment Horticulture
13. Greenhouse Production
14. Growing Succulents

### V. Growing Plants Outdoors: Ornamentals

15. Principles of Landscaping
16. Nursery Production
17. Installation of the Landscape
18. Turf Production and Use
19. Pruning

### VI. Growing Plants Outdoors: Vegetables, Fruits, and Nuts


20. Growing Vegetables Outdoors
21. Herb Gardening
22. Organic Farming
23. Establishment and Management of an Orchard

### VII. Special Techniques and Handling of Horticultural Products

24. Floral Design
25. Terrarium Culture
26. Bonsai: The Art of Miniature Plant Culture
27. Post-Harvest Handling of Horticultural Products



## The Nature and Properties of Soil, 14/e

 **Nyle C. Brady**

 **922** |  **2013**

### ABOUT THE BOOK

*The Nature and Properties of Soils, 14e* can be used in courses such as Soil Fertility, Land Resources, Earth Science and Soil Geography. Now in its 14th edition, this text is designed to help make students study of soils a fascinating and intellectually satisfying experience. Written for both majors and non-majors, this text highlights the many interactions between the soil and other components of forest, range, agricultural, wetland and constructed ecosystems.

### FEATURES

- New section on septic tank drain fields
- Expanded and totally revised section on irrigation management
- Updated section on engineering properties of soils which includes consistence, consistency, soil strength and sudden failure in cohesive and non-cohesive soils
- Text is organized with several cross referencing chapters
- Special topics are treated in boxes
- Study questions have been added to the end of each chapter to help students think and review the topics and their interactions

### CONTENTS

1. Glossary of Soil Science Terms
  2. The Soils Around Us
  3. Formation of Soils from Parent Materials
  4. Soil Classification
  5. Soil Architecture and Physical Properties
  6. Soil Water: Characteristics and Behavior
  7. Soil and the Hydrologic Cycle
  8. Soil Aeration and Temperature
  9. The Colloids Fraction: Seat of Soil Chemical and Physical Activity
  10. Soil Acidity
  11. Soils of Dry Regions: Alkalinity, Salinity, and Sodicity
  12. Organisms and Ecology of the Soil
  13. Soil Organic Matter
  14. Nitrogen and Sulfur Economy of Soils
  15. Soil Phosphorus and Potassium
  16. Calcium, Magnesium and Trace Elements
  17. Practical Nutrient Management
  18. Soil Erosion and Its Control
  19. Soils and Chemical Pollution
  20. Geographic Soils Information
  21. Prospects for Global Soil Quality as Affected by Human Activities
- Appendix: SI Units, Conversion Factors, Periodic Table of the Elements and Scientific Names of Plants Mentioned
- Appendix: World Reference Base, Canadian, and Australian Soil Classification Systems

### ABOUT THE AUTHOR(S)

**Nyle C. Brady**, Emeritus Professor, Cornell University

**Raymond C. Weil**, Professor, University of Maryland College Park

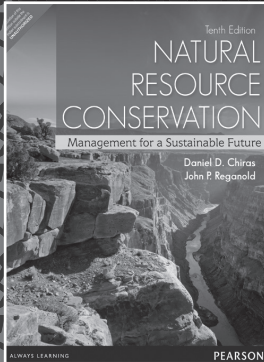
## Natural Resource Conservation: Management for a Sustainable, 10/e



Daniel D. Chiras | John P. Reganold



664 | © 2014



ISBN: 9789332536685

### ABOUT THE BOOK

This comprehensive text describes the ecological principles, policies, and practices required to create a sustainable future. It emphasizes practical, cost-effective, sustainable solutions to these problems that make sense from social, economic, and environmental perspectives.

### FEATURES

- A focus on sustainable development puts students in touch with one of the most significant shifts in thinking and action in the environmental and resource management arenas. A variety of lasting solutions are provided that make sense from social, economic, and environmental viewpoints.
- Critical thinking and ethics are stressed throughout and teach students to question and analyze issues from a variety of perspectives and to distinguish good information from bad.
- “Case Study,” “A Closer Look,” and “Ethics in Resource Conservation” boxes delve into the heart of controversial issues and provide a look at some career opportunities in natural resource conservation.
- Updated material throughout incorporates the latest statistics and includes a new chapter on global warming and climate change.
- Expanded coverage of social and policy issues includes coverage of environmental justice, free trade, and the impacts of globalization.
- International examples provide a broader scope of coverage and includes environmental and resource issues from around the globe.
- New “Go Green!” feature gives students tips and suggestions on reducing their carbon footprint.

### CONTENTS

1. Natural Resource Conservation and anagement: Past, Present and Future
2. Economics, Ethics, and Critical Thinking: Tools for Creating a Sustainable Future
3. Lessons from Ecology
4. The Human Population Challenge
5. World Hunger: Solving the Problem Sustainably
6. The Nature of Soils
7. Soil Conservation and Sustainable Agriculture
8. Integrated Pest Management
9. Aquatic Environments
10. Managing Water Resources Sustainability
11. Water Pollution
12. Fisheries Conservation
13. Rangeland Management
14. Forest Management
15. Plant and Animal Extinction
16. Wildlife Management
17. Sustainable Waste Management
18. Air Pollution
19. Global Warming and Climate Change
20. Acid Deposition and Stratospheric Ozone Depletion
21. Minerals, Mining, and a Sustainable Society
22. Nonrenewable Energy Resources: Issues and Options
23. Creating a Sustainable System of Energy

## Soil Fertility and Fertilizers, 8/e



John L. Havlin | Samuel L. Tisdale | Werner L. Nelson | James D. Beaton



536 | © 2016

### ABOUT THE BOOK

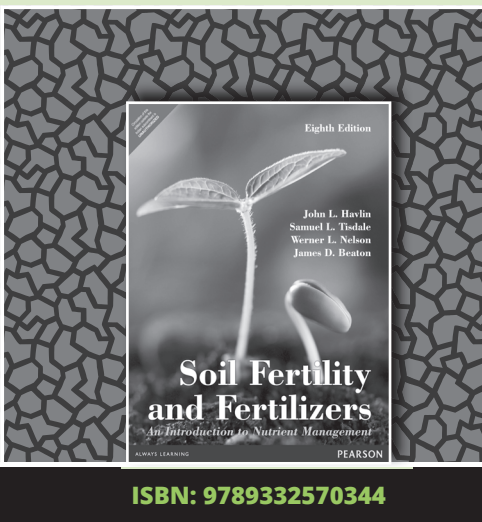
*Soil Fertility and Fertilizers: An Introduction to Nutrient Management, Eighth Edition*, provides a thorough understanding of the biological, chemical, and physical properties affecting soil fertility and plant nutrition. Covering all aspects of nutrient management for profitable crop production, the text pays particular attention to minimizing the environmental impact of soil and fertilizer management. The eighth edition of this proven text has been substantially revised to reflect rapidly advancing knowledge and technologies in both plant nutrition and nutrient management.

### FEATURES

- Illustrates critical quantitative skills essential to professional success in nutrient management and related disciplines.
- Increased number of photographs, diagrams, and other visuals illustrating nutrient response in crops, soil management effects on crop growth, nutrient application equipment, and more.
- Covers a wide diversity of plants and cropping systems.
- Increased emphasis on alternative nutrient sources to the most common fertilizers.
- Substantially enhanced focus on environmental impacts of nutrient use.

### CONTENTS

- |                                   |                                   |   |
|-----------------------------------|-----------------------------------|---|
| 1. Introduction                   | 6. Potassium                      | 10. Basics of Nutrient Management                       |
| 2. Basic Soil-Plant Relationships | 7. Sulfur, Calcium, and Magnesium | 11. Nutrients Interactions and Economics                |
| 3. Soil Acidity and Alkalinity    | 8. Micronutrients                 | 12. Agricultural Productivity and Environmental Quality |
| 4. Nitrogen                       | 9. Soil Fertility Evaluation      |   |
| 5. Phosphorus                     |                                   |   |



ISBN: 9789332570344

## Hartmann & Kester's Plant Propagation: Principles and Practices, 8/e



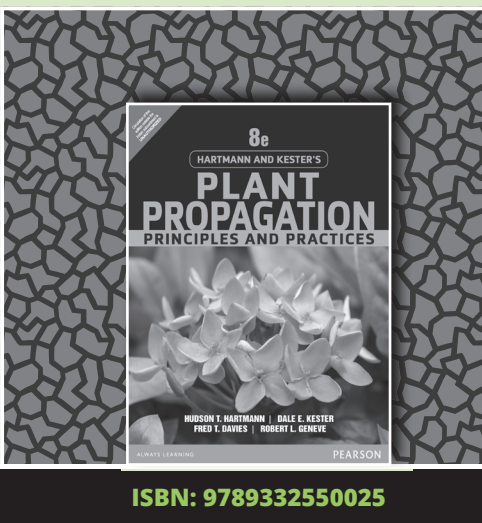
Hudson T. Hartmann | Dale E. Kester | Fred T. Davies | Robert Geneve



928 | © 2015

### ABOUT THE BOOK

The world standard for plant propagation and horticulture for over 50 years, *Hartmann and Kester's Plant Propagation* continues to be the field's most complete, up-to-date text on plant propagation. It now contains color figures throughout, promoting learning and making it an even more useful working text and reference. It also contains extensive updates reflecting the latest commercial techniques and understanding of propagation biology. Like previous editions, it is organized into paired chapters on principles and practices, so it can easily be adapted for teaching courses that cover only practical topics, and for courses that also cover conceptual issues.



ISBN: 9789332550025

### FEATURES

- Paired practical and conceptual chapters—alternate the principles underlying the science of propagation alternate with the technical practices and skills used for commercial plant propagation

- Clear chapter introductions and objectives—help students understand exactly what they will learn in each chapter, and why it is important
- Discussion items, keyword lists, in-depth boxed features, and extensive references—promote a deeper and more thorough understanding of the entire field
- Comprehensive coverage—from historical background and basic plant biology concepts through environmental impact and both seed (sexual) and vegetative (clonal) propagation
- Thorough reference chapters on specific propagation methods—for fruit, herbaceous annual and perennials, and woody plants, respectively

## CONTENTS

### Part I. General Aspects of Propagation

1. How Plant Propagation Evolved In Human Society
2. Biology of Plant Propagation
3. The Propagation Environment

### Part II. Seed Propagation

4. Seed Development
5. Principles and Practices of Seed Selection
6. Techniques of Seed Production and Handling
7. Principles of Propagation from Seeds
8. Techniques of Propagation by Seed

### Part III. Vegetative Propagation

9. Principles of Propagation by Cuttings
10. Techniques of Propagation by Cuttings
11. Principles of Grafting and Budding
12. Techniques of Grafting

### 13. Techniques of Budding

### 14. Layering and Its Natural Modifications

### 15. Principles and Practices of Clonal Selection

### 16. Propagation by Specialized Stems and Roots

### Part IV. Cell and Tissue Culture Propagation

### 17. Principles of Tissue Culture and Micropropagation

### 18. Techniques for Micropropagation

### Part V. Propagation of Selected Plant Species

### 19. Propagation Methods and Rootstocks for Fruit and Nut Species

### 20. Propagation of Ornamental Trees, Shrubs, and Woody Vines

### 21. Propagation of Selected Annuals and Herbaceous Perennials Used As Ornamentals

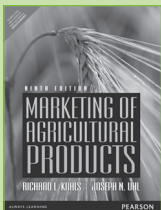
## ABOUT THE AUTHOR(S)

**Dale E. Kester** is Professor of Pomology emeritus at the University of California, Davis. During his 40 years at the University of California he taught courses in plant propagation and pomology. He has been a member of the American Society of Horticultural Science, becoming a Fellow in 1977.

**Fred T. Davies, Jr.**, Professor of Horticultural Sciences, and Molecular and Environmental Plant Sciences, Texas A&M University, has taught courses in plant propagation and nursery production and management since 1979. He has co-authored over 100 research and technical publications. He was a Fulbright Senior Fellow to Mexico (1993) and Peru (1999), and a J.S. Guggenheim Fellow (1999).

**Robert L. Geneve** is a Professor in the Department of Horticulture at the University of Kentucky. He teaches courses in plant propagation and seed biology. He has co-authored over 70 scientific and technical articles in seed biology, cutting propagation, and tissue culture. He is also the co-editor of the book *Biotechnology of Ornamental Plants* and author of *A Book of Blue Flowers*. He has served as a board member for the International Plant Propagators' Society-Eastern Region and serves on the Editor for the international horticulture journal, *Scientia Horticulturae*.

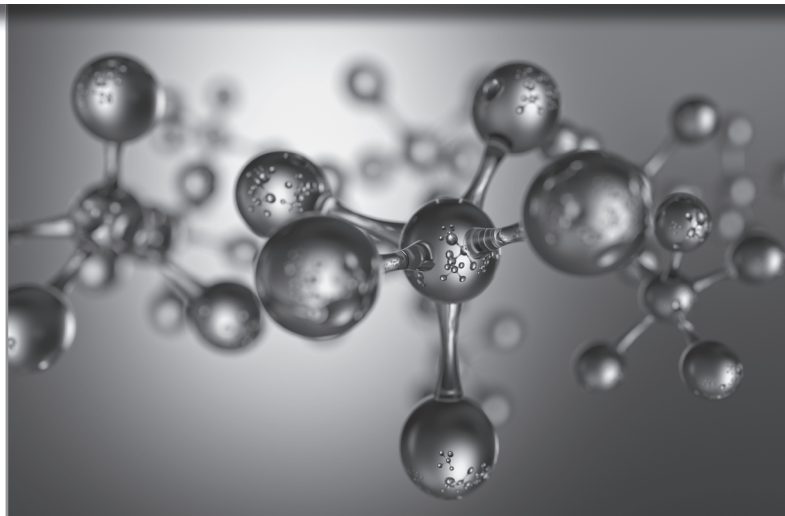
## ALSO AVAILABLE



### Marketing of Agricultural Products, 9/e

ISBN: 9789332556966

Pages: 544



## Biology

---



## Human Anatomy, 7/e



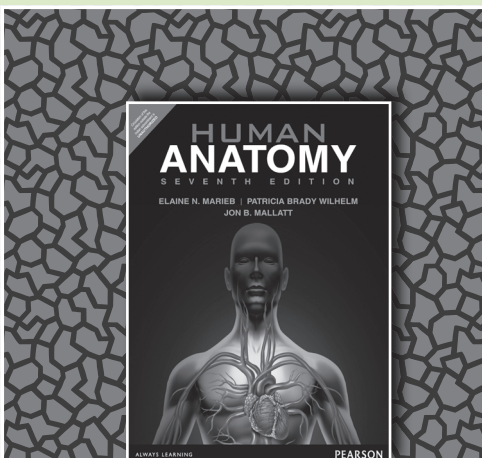
Elaine N Marieb | Patricia Brady Wilhelm | Jon Mallatt



888



2016



ISBN: 9789332570993

### ABOUT THE BOOK

The #1 best-selling textbook for the human anatomy course, *Human Anatomy, Seventh Edition* is widely regarded as the most readable and visually accessible book on the market. The new edition builds on the book's hallmark strengths—art that teaches better, a student-friendly narrative, and easy-to-use media and assessment tools—and improves on them with new and updated Focus Figures and new in-text media references. This edition also features vivid new clinical photos that reinforce real-world applications, and new cadaver photos and micrographs that appear side-by-side with art—all to increase students' ability to more accurately visualize

key anatomical structures.

### FEATURES

- Unique Focus Figure helps students grasp tough topics in anatomy by walking them through carefully developed illustrations that teach key concepts using large and dramatic layouts.
- Clear and concise tables, including many hallmark illustrated tables, condense relevant information into one place to facilitate the student's learning experience.
- Realistic bone art is consistent, three-dimensional, and incredibly life-like.
- Author-voice blue step text aids students in walking through a process or pathway for select figures.

### CONTENTS

1. The Human Body: An Orientation
2. Cells: The Living Units
3. Basic Embryology
4. Tissues
5. The Integumentary System
6. Bones and Skeletal Tissues
7. Bones, Part 1: The Axial Skeleton
8. Bones, Part 2: The Appendicular Skeleton
9. Joints
10. Skeletal Muscle Tissue
11. Muscles of the Body
12. Fundamentals of the Nervous System and Nervous Tissue
13. The Central Nervous System
14. The Peripheral Nervous System
15. The Autonomic Nervous System and Visceral Sensory Neurons
16. The Special Senses
17. The Endocrine System
18. Blood
19. The Heart
20. Blood Vessels
21. The Lymphatic and Immune Systems
22. The Digestive System
23. The Respiratory System
24. The Urinary System
25. The Reproductive System

### ABOUT THE AUTHOR(S)

**Elaine Marieb** began her teaching career at Springfield College, where she taught anatomy and physiology to physical education majors. She then joined the faculty of the Biological Science Division of Holyoke Community College after receiving her Ph.D. in zoology from the University of Massachusetts at Amherst.

**Patricia Brady Wilhelm** received her Ph.D. in Biological and Medical Sciences from Brown University and is currently Professor of Biology at the Community College of Rhode Island. She has been teaching anatomy to undergraduates for more than 12 years at Brown University, Rhode Island College, and the Community College of Rhode Island.

**Jon Mallatt** earned his Ph.D. in Anatomy from the University of Chicago. Dr. Mallatt is currently an Associate Professor of Biological Sciences at Washington State University, where he has been teaching human anatomy to undergraduates of all backgrounds for 24 years.



# Essentials of Human Anatomy & Physiology, 10/e



Elaine N. Marieb



648 | © 2016

## ABOUT THE BOOK

With the Ninth Edition of Human Anatomy & Physiology, trusted authors Elaine N. Marieb and Katja Hoehn have produced the most accessible, comprehensive, up-to-date and visually stunning anatomy & physiology textbook on the market. Marieb draws on her career as an A&P professor and her experience completing her nursing education; Hoehn relies on her medical education and award-winning classroom instruction—together, they explain anatomy & physiology concepts and processes in a meaningful and memorable way.

In the most extensive revision to date—the Ninth Edition presents information in smaller and more digestible bites, making it easier to read and navigate.

## FEATURES

- The clear and inviting writing style engages students with everyday analogies that explain difficult concepts and hold students' attention.
- Check Your Understanding concept check questions, which are tied to section.
- The enhanced art program accelerates the learning process with large, clear anatomical figures, handy illustrated tables, color-coded flow charts, and realistic illustrations of microscopic structures.
- Muscle art features realistic, natural-looking colors and textures that are consistent in style from figure-to-figure.
- Blue text acts as the author's voice and explains processes. In some figures the text is broken into numbered steps to help students more easily understand processes one step at a time.

## CONTENTS

1. The Human Body: An Orientation
2. Chemistry Comes Alive
3. Cells: The Living Units
4. Tissue: The Living Fabric
5. The Integumentary System
6. Bones and Skeletal Tissues
7. The Skeleton
8. Joints
9. Muscles and Muscle Tissue
10. The Muscular System
11. Fundamentals of the Nervous System and Nervous Tissue
12. The Central Nervous System
13. The Peripheral Nervous System and Reflex Activity
14. The Autonomic Nervous System
15. The Special Senses
16. The Endocrine System
17. Blood
18. The Cardiovascular System: The Heart
19. The Cardiovascular System: Blood Vessels
20. The Lymphatic System and Lymphoid Organs and Tissues
21. The Immune System: Innate and Adaptive Body Defenses
22. The Respiratory System
23. The Digestive System
24. Nutrition, Metabolism, and Body Temperature Regulation
25. The Urinary System
26. Fluid, Electrolyte, and Acid-Base Balance
27. The Reproductive System
28. Pregnancy and Human Development
29. Heredity

## ABOUT THE AUTHOR(S)

For **Elaine N. Marieb**, taking the student's perspective into account has always been an integral part of her teaching style. Dr. Marieb began her teaching career at Springfield College, where she taught anatomy and physiology to physical education majors. She then joined the faculty of the Biological Science Division of Holyoke Community College after receiving her Ph.D. in zoology from the University of Massachusetts at Amherst.

While teaching at Holyoke Community College, where many of her students were pursuing nursing degrees, she developed a desire to better understand the relationship between the scientific study of the human body and the clinical aspects of the nursing practice. To that end, while continuing to teach full time, Dr. Marieb pursued her nursing education, which culminated in a Master of Science degree with a clinical specialization in gerontology from the University of Massachusetts. It is this experience, along with stories from the field—including those of former students, now in health careers—that has informed the development of the unique perspective and accessibility for which her texts and laboratory manuals are known.

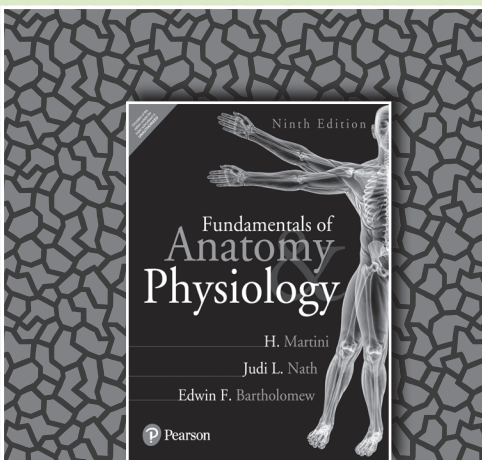
## Fundamentals of Anatomy & Physiology, 9e



Frederic H. Martini | Judi L. Nath | Edwin F. Bartholomew



1280 | © 2016



ISBN: 9789332578579

### ABOUT THE BOOK

Frederic ("Ric") Martini, joined by accomplished educator, award-winning teacher, and co-author Judi Nath, has substantially revised *Fundamentals of Anatomy & Physiology* to make the Ninth Edition the most readable and visually effective edition to date. New Spotlight figures integrate brief text and visuals for easy reading.

### FEATURES

■ Spotlight Figures provide highly visual one- and two-page presentations of tough topics in the book, with a particular focus on physiology.

- Clinical Notes appear within every chapter, expand upon topics just discussed, and present diseases and pathologies along with their relationship to normal function. These Clinical Notes relate directly to what students will encounter in their future careers.
- Checkpoints ask students to pause and check their understanding of facts and concepts. They are located at predictable points throughout the chapter, at the end of each major topic, and the answers are at the back of the book.
- Tips & Tricks boxes are brief and concrete learning tools that give students simple analogies and easy memory devices to help them remember facts and concepts.
- Important topics coverage such as The Endocrine System, The Lymphatic System and Immunity, The Respiratory System, The Digestive System, The Urinary System, The Reproductive System

### CONTENTS

1. An Introduction to Anatomy and Physiology
2. The Chemical Level of Organization
3. The Cellular Level of Organization
4. The Tissue Level of Organization
5. The Integumentary System
6. Osseous Tissue and Bone Structure
7. The Axial Skeleton
8. The Appendicular Skeleton
9. Articulations
10. Muscle Tissue
11. The Muscular System
12. Neural Tissue
13. The Spinal Cord, Spinal Nerves, and Spinal Reflexes
14. The Brain and Cranial Nerves
15. Neural Integration I: Sensory Pathways and the Somatic Nervous System
16. Neural Integration II: The Autonomic Nervous System and Higher-Order Functions
17. The Special Senses
18. The Endocrine System
19. Blood
20. The Heart
21. Blood Vessels and Circulation
22. The Lymphatic System and Immunity
23. The Digestive System
24. The Respiratory System
25. Metabolism and Energetics
26. The Urinary System
27. Fluid, Electrolyte, and Acid-Base Balance
28. The Reproductive System
29. Development and Inheritance

### ABOUT THE AUTHOR(S)

**Dr. Frederic ("Ric") Martini** received his Ph.D. from Cornell University in comparative and functional anatomy for work on the pathophysiology of stress.

**Dr. Judi L. Nath** is a biology professor at Lourdes College, where she teaches anatomy and physiology, pathophysiology, medical terminology, and pharmacology.

**Ed Bartholomew** received his undergraduate degree from Bowling Green State University and his M.S. from the University of Hawaii.

**Bill Ober** is the lead illustrator on all Martini titles. Bill is an Affiliate Professor of Biology at Washington and Lee University (Lexington, VA) and is part of the Core Faculty at Shoals Marine Laboratory (Portsmouth, NH), where he teaches Biological Illustration most summers.

**Claire E. Ober** is an illustrator who works closely with Bill Ober.

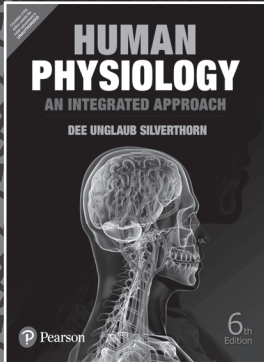
# Human Physiology, An Integrated Approach, 6/e



Dee Unglaub Silverthorn



1032 | © 2016



ISBN: 9789332577541

## ABOUT THE BOOK

*Human Physiology: An Integrated Approach* broke ground with its thorough coverage of molecular physiology seamlessly integrated into a traditional homeostasis-based systems approach. The newly revised Sixth Edition introduces a major reorganization of the early chapters to provide the best foundation for the course and new art features that streamline review and essential topics so that students can access them more easily on an as-needed basis.

## FEATURES

- Four chapters on Integrative Physiology (chapters 6, 13, 20, and 25) demonstrate how physiological processes work together in an integrated system. These chapters also explore how body systems influence each other and show that overall systems are often more complicated than the sum of their component parts.
- Interactive pedagogy encourages students to assess their knowledge as they read rather than waiting until the end of the chapter:
- Background Basics sections at the beginning of each chapter encourage students to revisit and review topics for the upcoming chapter.
- Concept Links (signaled with white and blue chain link symbols) help students locate material they need to review.
- Concept Checks are placed at intervals throughout the chapters and ask students to test their understanding before continuing to the next topic.
- Figure and graph questions promote analytical skills by encouraging students to interpret data and information.
- Running Problems appear in segments throughout each chapter and require students to apply what they have learned to a real life pathophysiology case study.
- The end-of-chapter, four-level learning system helps build student confidence and understanding by progressing from factual questions to conceptual problems, and from these, to analytical exercises to quantitative questions.

## CONTENTS

### I. Basic Cell Processes: Integration and Coordination

1. Introduction to Physiology
2. Molecular Interactions
3. Compartmentation: Cells and Tissues
4. Energy and Cellular Metabolism
5. Membrane Dynamics
6. Communication, Integration, and Homeostasis

### II. Homeostasis and Control

7. Introduction to the Endocrine System
8. Neurons: Cellular and Network Properties
9. The Central Nervous System
10. Sensory Physiology
11. Efferent Division: Autonomic and Somatic Motor Control
12. Muscles
13. Integrative Physiology I: Control of Body Movement

### III. Integration of Function

14. Cardiovascular Physiology
15. Blood
16. Blood Flow and the Control of Blood Pressure
17. Mechanics of Breathing
18. Gas Exchange and Transport
19. The Kidneys
20. Integrative Physiology II: Fluid and Electrolyte Balance

### IV. Metabolism, Growth, and Aging

21. Digestion
22. Metabolism and Energy Balance
23. Endocrine Control of Growth and Metabolism
24. The Immune System
25. Integrative Physiology III: Exercise
26. Reproduction and Development

## ABOUT THE AUTHOR(S)

Dee Unglaub Silverthorn studied biology as an undergraduate at Tulane University and received a Ph.D. in marine science from the University of South Carolina. Her research interest is epithelial transport, and recent work in her laboratory has focused on transport properties of the chick allantoic membrane.

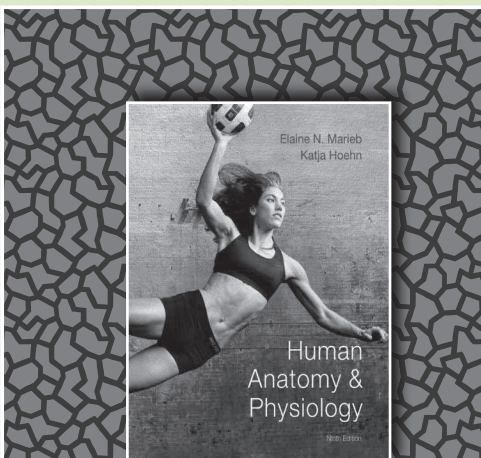
# Human Anatomy & Physiology, 9/e



Elaine N. Marieb | Katja N. Hoehn



1264 | © 2018



ISBN: 9789332585591

## ABOUT THE BOOK

With the Ninth Edition of *Human Anatomy & Physiology*, trusted authors Elaine N. Marieb and Katja Hoehn have produced the most accessible, comprehensive, up-to-date and visually stunning anatomy & physiology textbook on the market. Marieb draws on her career as an A&P professor and her experience completing her nursing education; Hoehn relies on her medical education and award-winning classroom instruction—together, they explain anatomy & physiology concepts and processes in a meaningful and memorable way.

In the most extensive revision to date—the Ninth Edition presents information in smaller and more digestible bites, making it easier to read and navigate.

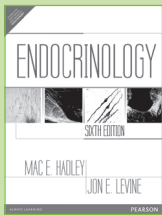
## FEATURES

- The clear and inviting writing style engages students with everyday analogies that explain difficult concepts and hold students' attention.
- A trusted and easy-to-navigate text features writing with a clean presentation that is easy to study from and navigate. Student Objectives appear at the beginning of every section of the narrative. These give students a preview of what content is to come and what they are expected to learn.
- Check Your Understanding concept check questions, which are tied to section Learning Objectives, ask students to stop, think, and check their understanding of key concepts at the end of each major section.
- The enhanced art program accelerates the learning process with large, clear anatomical figures, handy illustrated tables, color-coded flow charts, and realistic illustrations of microscopic structures.
- Muscle art features realistic, natural-looking colors and textures that are consistent in style from figure-to-figure.
- Blue text acts as the author's voice and explains processes. In some figures the text is broken into numbered steps to help students more easily understand processes one step at a time.
- Comprehensive clinical applications appear in numerous Homeostatic Imbalance examples throughout every chapter, Closer Look enrichment essays, and the new At the Clinic section, which offers End-of-Chapter Case Studies for 24 of the 29 chapters. Critical Thinking and Clinical Application Questions help students further apply their knowledge.

## CONTENTS

1. The Human Body: An Orientation
2. Chemistry Comes Alive
3. Cells: The Living Units
4. Tissue: The Living Fabric
5. The Integumentary System
6. Bones and Skeletal Tissues
7. The Skeleton
8. Joints
9. Muscles and Muscle Tissue
10. The Muscular System
11. Fundamentals of the Nervous System and Nervous Tissue
12. The Central Nervous System
13. The Peripheral Nervous System and Reflex Activity
14. The Autonomic Nervous System
15. The Special Senses
16. The Endocrine System
17. Blood
18. The Cardiovascular System: The Heart
19. The Cardiovascular System: Blood Vessels
20. The Lymphatic System and Lymphoid Organs and Tissues
21. The Immune System: Innate and Adaptive Body Defensives
22. The Respiratory System
23. The Digestive System
24. Nutrition, Metabolism, and Body Temperature Regulation
25. The Urinary System
26. Fluid, Electrolyte, and Acid-Base Balance
27. The Reproductive System
28. Pregnancy and Human Development
29. Heredity

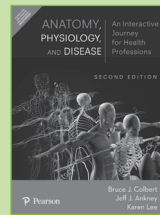
➡ ALSO AVAILABLE...



### Endocrinology, 6/e

ISBN: 9788131726105

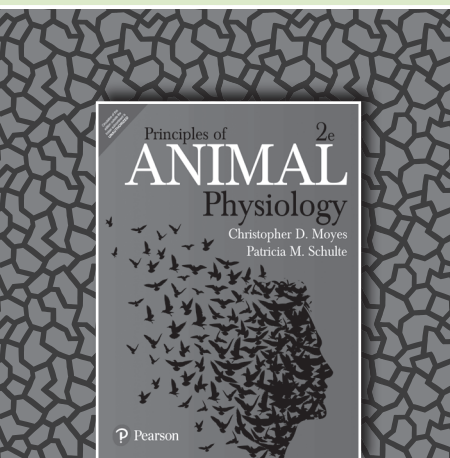
Pages: 608



### Anatomy, Physiology, and Disease: An Interactive Journey for Health Professions, 2/e

ISBN: 9789332586802

Pages: 704



ISBN: 9789332577473

## Principles of Animal Physiology, 2/e



Christopher D. Moyes | Patricia M. Schulte



768 |



2016

### ABOUT THE BOOK

*Principles of Animal Physiology, Second Edition* continues to set a new standard for animal physiology textbooks with its focus on animal diversity, its modern approach and clear foundation in molecular and cell biology, its concrete examples throughout, and its fully integrated coverage of the endocrine system. Carefully designed, full-color artwork guides students through complex systems and processes while in-text pedagogical tools help them learn and remember the material. The book includes the most up-to-date research on animal genetics and genomics, methods and models, and offers a diverse range of vertebrate and invertebrate examples,

with a student-friendly writing style that is consistently clear and engaging.

Christopher Moyes and Patricia Schulte present animal physiology in a current, balanced, and accessible way that emphasizes the integration of physiological systems, an overarching evolutionary theme, and thorough coverage of the cellular and molecular basis of animal physiology.

### FEATURES

- Applications boxes show students how animal physiology is relevant to a variety of fields.
- Thorough, up-to-date coverage of the cellular and molecular basis of physiology provides a solid introduction to recent research developments.
- Promoting effective learning is a key goal of the text, with several methods to help students get the most out of the course.
- NEW! Concept Check Questions appear throughout each chapter. Answers can be found on the text's Companion Website.
- End-of-chapter Review, Synthesis, and Quantitative (NEW!) Questions provide increasingly sophisticated and challenging ways for students to test their comprehension of important concepts. Answers can be found on the text's Companion Website.
- Overview figures begin each chapter, helping encapsulate the key concepts of the chapter and providing a guide for review and self-study.
- Sentence-format headings enhance student comprehension and allow for efficient review.
- Clear and engaging writing style captures students' attention and makes complex physiological concepts and processes easy to understand.



## CONTENTS

### Part I. The Cellular Basis of Animal Physiology

1. Introduction to Physiological Principles
2. Chemistry, Biochemistry, and Cell Physiology
3. Cell Signaling and Endocrine Regulation
4. Neuron Structure and Function
5. Cellular Movement and Muscles

### Part II. Integrating Physiological Systems

6. Sensory Systems

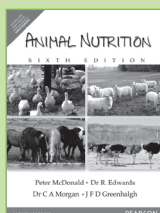
7. Functional Organization of Nervous Systems
8. Circulatory Systems
9. Respiratory Systems
10. Ion and Water Balance
11. Digestion
12. Locomotion
13. Thermal Physiology
14. Reproduction

## ABOUT THE AUTHOR(S)

**Christopher D. Moyes** received his Ph.D. in Zoology from the University of British Columbia in the area of comparative muscle physiology. After postdoctoral fellowships in molecular physiology at the U.S. National Institutes of Health and Simon Fraser University, he took a position at Queen's University, where he is an associate professor in the Department of Biology. He teaches a spectrum of courses in cell biology and animal physiology, while continuing to pursue his research interests in molecular physiology and biochemistry.

**Patricia M. Schulte** received her Ph.D. in Biological Sciences from Stanford University in the area of evolutionary physiology focusing on the role that changes in gene expression play in evolution. She is currently an assistant professor in the Department of Zoology at the University of British Columbia in Vancouver, where she teaches animal physiology and evolutionary physiology and runs an active research program.

## ➡ ALSO AVAILABLE...



### Animal Nutrition 6/e

ISBN: 9788131717608

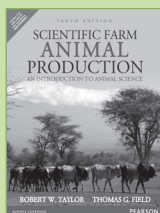
Pages: 708



### Fishes: An Introduction to Ichthyology, 5/e

ISBN: 9789332556935

Pages: 744



### Scientific Farm Animal Production, 10/e

ISBN: 9789332550049

Pages: 672

# Fundamentals of Entomology



Richard J. Elzinga



512 | © 2018

## ABOUT THE BOOK

For undergraduate courses in General Entomology and Pest Management.

Using an exceptionally clear writing style, minimal scientific jargon, and vivid photos and drawings, this text provides a comprehensive view of the fundamentals of entomology at a level that introductory, non-major students can comprehend. It captures the rich diversity and complexity of insects and their influence upon the ecosystem—without turning students off with excessive details.

## FEATURES

- NEW - Expanded section on IPM. Provides students with added information on Genetic Engineering and transgenics.
- NEW - Added discussion on plants. Examines how plants use insects for food.
- NEW - Improved chapter on Ecology—Ch. 5. Supplies students with coverage of coevolution and biomes.
- NEW - Expanded coverage throughout—Includes specialized insect collecting techniques; disease transmission; medicine; leaf-rolling; skeletonizing; and gall formation. Allows students in entomology, agriculture, education, and biology to use and more easily understand the text.
- NEW - Chapter-end summaries. Enables students to recognize the key content in each chapter and review their understanding of it before moving on.
- The basic insect plan—Outlined with minimal yet noteworthy examples. Presents the fundamentals at a level that biology and agriculture students can comprehend without turning them off with excessive details.
- The macro- and microcosm of the insect world. Helps students understand the nature and place of insects generally on a grand scale as well as the tremendously rich diversity that exists among the insects themselves.
- Minimal, yet sufficient, classification. Provides students with enough classification information to enable them to easily follow other material in the text and to intelligently read outside materials that they will be exposed to.
- A wealth of vivid photographs and diagrams. Aids in insect identification and makes abstract concepts easier to understand for today's visually oriented students.
- Chapter-end questions. Helps students focus on important points.
- Quick-reference organization— Features carefully coordinated cross-references, glossary of terms, glossary of photographs, and references. Provides students with convenient in-text resources for study and additional research.

## CONTENTS

1. The Arthropod Plan
2. The Insect Externally
3. The Insect Internally
4. Development and Specialization
5. Ecology
6. Behavior
7. From Solitary to Social
8. Parasitism by Insects
9. Predation by Insects
10. Insects, Plants, Livestock, Domestic Animals, and Humans
11. Insect Pest Management
12. Household Insects
13. Classification
14. Making an Insect Collection
- Glossary
- Selected References
- Index



## Biology: Life on Earth with Physiology, 10/e



Gerald Audesirk | Teresa Audesirk | Bruce E. Byers



1056 | © 2016

### ABOUT THE BOOK

*Biology: Life on Earth with Physiology, Tenth Edition* continues this book's tradition of engaging non-majors biology students with real-world applications, high-interest case studies, and inquiry-based pedagogy that fosters a lifetime of discovery and scientific literacy.

Maintaining the friendly writing style that has made the book a best-seller, the Tenth Edition continues to incorporate true and relevant stories using a chapter-opening Case Study that is revisited throughout the chapter and concluded at the end of the chapter. New to the Tenth Edition are Learning Goals and Check

Your Learning questions that help students assess their understanding of the core concepts in biology. To increase the book's focus on health science, additional Health Watch essays are provided throughout units, and more anatomy & physiology content has been incorporated into the main narrative.

### FEATURES

- Case Study features, which open all chapters in the book and draw students in by telling a true yet extraordinary story that relates to the biological theme of the chapter.
- Every chapter uses an inquiry approach, encouraging students to pause, think, and then answer questions as they read.
- Check Your Learning questions now conclude each main section, and encourage students to assess their understanding of recently read material.
- Boxed essays in every chapter expose students to biology that relates to everyday issues and events which they may encounter in their lives or in the news:
- A vibrant and accessible art program visually draws students into learning the material and effectively teaches concepts:
- Numbered steps within the artwork break down complex processes into more manageable chunks.

### CONTENTS

1. An Introduction to Life on Earth
- I. The Life of The Cell**
2. Atoms, Molecules, and Life
  3. Biological Molecules
  4. Cell Structure and Function
  5. Cell Membrane Structure and Function
  6. Energy Flow in the Life of a Cell
  7. Capturing Solar Energy: Photosynthesis
  8. Harvesting Energy: Glycolysis and Cellular Respiration
- II. Inheritance**
9. The Continuity of Life: Cellular Reproduction
  10. Patterns of Inheritance
  11. DNA: The Molecule of Heredity
  12. Gene Expression and Regulation
- III. Evolution and Diversity of Life**
13. Principles of Evolution
  14. How Populations Evolve
  15. The Origin of Species
  16. The History of Life
  17. Systematics: Seeking Order Amid Diversity
  18. The Diversity of Prokaryotes and Viruses
  19. The Diversity of Protists
  20. The Diversity of Plants
  21. The Diversity of Fungi
  22. Animal Diversity I: Invertebrates
  23. Animal Diversity II: Vertebrates
- IV. Behavior and Ecology**
24. Animal Behavior
  25. Population Growth and Regulation
  26. Community Interactions
  27. Energy Flow and Nutrient Cycling in Ecosystems
  28. Earth's Diverse Ecosystems
  29. Conserving Earth's Biodiversity
- V. Animal Anatomy and Physiology**
30. Homeostasis and the Organization of the Animal Body
  31. Circulation
  32. Respiration
  33. Nutrition and Digestion
  34. The Urinary System
  35. Defense Against Disease

- 36. Chemical Control of the Animal Body: The Endocrine System
- 37. The Nervous System
- 38. The Senses
- 39. Action and Support: The Muscles and Skeleton
- 40. Animal Reproduction

- 41. Animal Development

## VI. Plant Anatomy and Physiology

- 42. Plant Anatomy and Nutrient Transport
- 43. Plant Reproduction and Development
- 44. Plant Responses to the Environment
- 45. Biotechnology

### ABOUT THE AUTHOR(S)

**Terry and Gerry Audesirk** grew up in New Jersey, where they met as undergraduates. After marrying in 1970, they moved to California, where Terry earned her doctorate in marine ecology at the University of Southern California and Gerry earned his doctorate in neurobiology at the California Institute of Technology. As postdoctoral students at the University of Washington's marine laboratories, they worked together on the neural bases of behavior, using a marine mollusk as a model system.

They are now emeritus professors of biology at the University of Colorado Denver, where they taught introductory biology and neurobiology from 1982 through 2006.

**Bruce E. Byers** is a midwesterner transplanted to the hills of western Massachusetts, where he is a professor in the biology department at the University of Massachusetts, Amherst. He's been a member of the faculty at UMass (where he also completed his doctoral degree) since 1993. Bruce teaches introductory biology courses for both nonmajors and majors; he also teaches courses in ornithology and animal behavior.

A lifelong fascination with birds ultimately led Bruce to scientific exploration of avian biology.

---

## Biological Science, 5/e



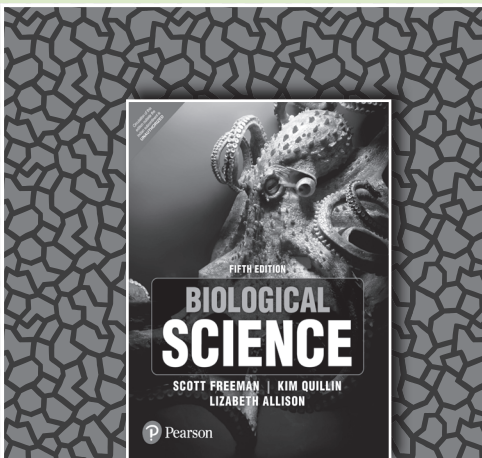
Scott Freeman | Kim Quillin | Lizabeth Allison



2016



2016



ISBN: 9789332575912

### ABOUT THE BOOK

Scott Freeman's *Biological Science* is beloved for its Socratic narrative style, its emphasis on experimental evidence, and its dedication to active learning. In the Fifth Edition, the author team has expanded to include new members—bringing a fresh focus on accuracy and currency, and multiplying the dedication to active learning by six.

### FEATURES

- Research Boxes and many new in-text discussions highlight the latest research and show students the ongoing nature of scientific discovery.
- Chapter-opening Roadmaps visually group and organize information to help students anticipate key ideas as well as recognize meaningful relationships and connections between the ideas.
- Big Picture concept maps integrate visuals and words to help students synthesize information across chapters and units on challenging topics in biology.
- Quantitative questions are identified throughout the text, helping professors and students engage in computational problem-solving.
- Data sources have been identified for all graphs and charts throughout the text, to emphasize the research process that leads to our understanding of biological ideas.

### CONTENTS

1. Biology and the Tree of Life
- I. The Molecules of Life
  2. Water and Carbon: The Chemical Basis of Life
  3. Protein Structure and Function
  4. Nucleic Acids and the RNA World
  5. An Introduction to Carbohydrates
  6. Lipids, Membranes, and the First Cells
- II. Cell Structure and Function
  7. Inside the Cell
  8. Cell-Cell Interactions
  9. Cellular Respiration and Fermentation
  10. Photosynthesis
  11. The Cell Cycle
- III. Gene Structure and Expression
  12. Meiosis
  13. Mendel and the Gene
  14. DNA and the Gene: Synthesis and Repair
  15. How Genes Work
  16. Transcription, RNA Processing, and Translation
  17. Control of Gene Expression in Bacteria
  18. Control of Gene Expression in Eukaryotes
  19. Analyzing and Engineering Genes
  20. Genomics
- IV. Developmental Biology
  21. Principles of Development
  22. An Introduction to Animal Development
  23. An Introduction to Plant Development
- V. Evolutionary Processes and Patterns
  24. Evolutionary Processes
  25. Evolution by Natural Selection
  26. Speciation
  27. Bacteria and Archaea
- VI. The Diversification of Life
  28. Phylogenies and the History of Life
  29. Protists
  30. Green Algae and Land Plants
  31. Fungi
  32. An Introduction to Animals
  33. Protostome Animals
  34. Deuterostome Animals
  35. Viruses
- VII. How Plants Work
  36. Plant Form and Function
  37. Water and Sugar Transport in Plants
  38. Plant Nutrition
  39. Plant Sensory Systems, Signals, and Responses
  40. Plant Reproduction
- VIII. How Animals Work
  41. Animal Form and Function
  42. Water and Electrolyte Balance in Animals

- 43. Animal Nutrition
- 44. Gas Exchange and Circulation
- 45. Electrical Signals in Animals
- 46. Animal Sensory Systems and Movement
- 47. Chemical Signals in Animals
- 48. Animal Reproduction
- 49. The Immune System in Animals

## IX. Ecology

- 50. An Introduction to Ecology
- 51. Behavioral Ecology
- 52. Population Ecology
- 53. Community Ecology
- 54. Ecosystems
- 55. Biodiversity and Conservation

## ABOUT THE AUTHOR(S)

**Scott Freeman** Scott Freeman received his Ph.D. in Zoology from the University of Washington and was subsequently awarded an Alfred P. Sloan Postdoctoral Fellowship in Molecular Evolution at Princeton University. His current research focuses on the scholarship of teaching and learning and he recently published two papers on his work: (1) how active learning and peer teaching techniques increase student learning and improve performance in introductory biology (Freeman, S., E. O'Connor, J.W. Parks, M. Cunningham, D. Hurley, D. Haak, C. Dirks, and M.P. Wenderoth. 2007).

**Kim Quillin** Illustrator, Kim Quillin, combines expertise in biology and information design to create lucid visual representations of biological principles. She received her B.A. in Biology at Oberlin College and her Ph.D. in Integrative Biology from the University of California, Berkeley (as a National Science Foundation Graduate Fellow), and has taught undergraduate biology at both schools.

---

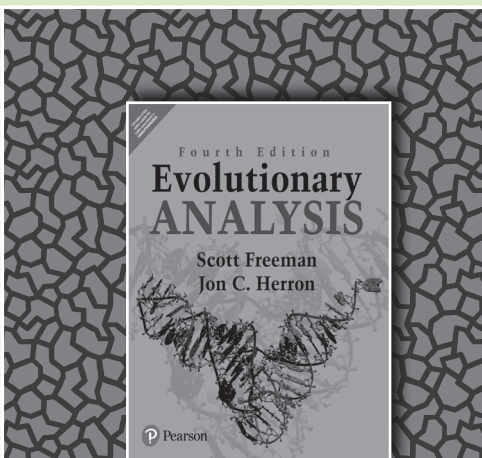
## Evolutionary Analysis, 4/e



Scott Freeman | Jon C. Herron



856 | © 2016



ISBN: 9789332577459

### ABOUT THE BOOK

By presenting evolutionary biology as an ongoing research effort, this best-selling text aims to help students think like scientists. The authors convey the excitement and logic of evolutionary science by introducing principles through recent and classical studies, and by emphasizing real-world applications.

### FEATURES

■ Inquiry-Driven Presentation — Presents basic principles of evolutionary biology through the analysis of new and classical research studies.

- Evolution presented as a process — Enables students to make connections as they see a scientific theory from observation, through testing and data analysis.
- Author-developed illustration program — Includes full-color photographs, diagrams and data-graphics throughout.
- Ties the illustrations closely to the text, making the overall presentation more accessible to students.

### CONTENTS

#### I. Introduction

1. A Case for Evolutionary Thinking: Understanding HIV
2. The Evidence for Evolution
3. Darwinian Natural Selection
4. Reconstructing Evolutionary Trees

#### II. Mechanisms of Evolutionary Change

5. Mutation and Genetic Variation
6. Mendelian Genetics in Populations I: Selection and Mutation as Mechanisms of Evolution
7. Mendelian Genetics in Populations II: Migration, Genetic Drift, and Nonrandom Mating
8. Evolution at Multiple Loci: Linkage and Sex
9. Evolution at Multiple Loci: Quantitative Genetics

#### III. Adaptation

10. Studying Adaptation: Evolutionary Analysis of Form and Function
11. Sexual Selection
12. Kin Selection and Social Behavior
13. Aging and Other Life History Characters
14. Evolution and Human Health
15. Phylogenomics and the Molecular Basis of Adaptation

#### IV. The History of Life

16. Mechanisms of Speciation
17. The Origins of Life and Precambrian Evolution
18. The Cambrian Explosion and Beyond
19. Development and Evolution
20. Human Evolution

### ABOUT THE AUTHOR(S)

**Scott Freeman** Scott Freeman received his Ph.D. in Zoology from the University of Washington and was subsequently awarded an Alfred P. Sloan Postdoctoral Fellowship in Molecular Evolution at Princeton University. His current research focuses on the scholarship of teaching and learning and he recently published two papers on his work: (1) how active learning and peer teaching techniques increase student learning and improve performance in introductory biology (Freeman, S., E. O'Connor, J.W. Parks, M. Cunningham, D. Hurley, D. Haak, C. Dirks, and M.P. Wenderoth. 2007).

## Principles of Cancer Biology, 1/e

 Lewis J. Kleinsmith

 320 |  2016

### ABOUT THE BOOK

*Principles of Cancer Biology*, is an engaging book focused on providing students with a “big picture” view of cancer. Author Lewis Kleinsmith has written an instructional text focusing on key concepts for both students and a general audience. For those instructors who wish to delve into particular aspects of cancer biology in greater depth, each chapter contains a list of suggested readings that expand the detail as needed.

The text also emphasizes the scientific evidence that underlies cancer biology, and teaches students to think critically about this evidence- as there are constantly new “breakthroughs” and reports in this field. For students who need the review, there are brief reviews of several topics related to DNA replication and repair, cell division, cell signaling, and inheritance patterns in chapters where these subjects are relevant. By including these reviews, the text is both accessible and engaging to a broad audience of readers who are studying cancer biology for the first time, as well as an interested general audience.

### FEATURES

- Focus on the key concepts to help build a foundation for further study.
- Scientifically based. The text teaches students how to read and critically evaluate the current research.
- Every chapter is subdivided into a series of conceptual sections, each introduced by a Sentence Heading that summarizes the Principle being described in that section.
- Art that Teaches. Each piece of art in the text has been carefully considered to ensure that readers can easily absorb the data.
- A bulleted Summary of Main Concepts is found at the end of each chapter helping students review the major principles covered in that chapter.
- Suggested Reading lists are included at the end of each chapter with an emphasis on review articles and carefully selected research publications that students are likely to find especially relevant and understandable.

### CONTENTS


1. What Is Cancer?
  2. Profile of a Cancer Cell
  3. How Cancers Spread
  4. Identifying the Causes of Cancer
  5. Chemicals and Cancer
  6. Radiation and Cancer
  7. Infectious Agents and Cancer
  8. Heredity and Cancer
  9. Oncogenes
  10. Tumor Suppressor Genes and Cancer Overview
  11. Cancer Screening, Diagnosis, and Treatment
  12. Preventing Cancer
- Appendix A: Main Types of Cancer  
Appendix B: Human Carcinogens  
Glossary  
Index

### ABOUT THE AUTHOR(S)

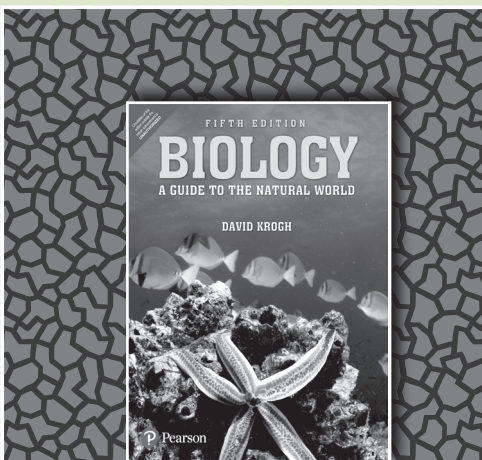
Lewis J. Kleinsmith, University of Michigan



## Biology: A Guide to the Natural World, 5/e

 David Krogh

 824 |  2016



ISBN: 9789332578562

### ABOUT THE BOOK

David Krogh's *Biology: A Guide to the Natural World* leads readers on a memorable journey through the world of biology, using relevant examples, clearly-developed illustrations, and helpful insights that resonate with today's students.

Widely-recognized as a book that students enjoy reading, the Fifth Edition has been thoroughly updated with new discussions on social concerns and health applications, along with streamlined chapter summaries and expanded review questions. To address different learning styles, the book's clear illustrations and exercises are reinforced with a full suite of instructor resources.

### FEATURES

- Accessible writing style acts as a helpful companion that guides non-majors students through the subject of biology by placing unfamiliar biology topics in context with everyday life.
- The Process of Science essays present scientific research and discovery with contemporary and historical topics of interest to students.
- Strong Illustration Program guides students through structures and processes with clear three-dimensional detail; key information from the text is reinforced in the illustrations.
- "So Far" Questions interspersed throughout each chapter give students a moment to reflect on what they have been reading and check understanding.

### CONTENTS

1. Science as a Way of Learning: A Guide to the Natural World
2. Fundamental Building Blocks: Chemistry, Water, and pH
3. Life's Components: Biological Molecules
4. Life's Home: The Cell
5. Life's Border: The Plasma Membrane
6. Life's Mainspring: An Introduction to Energy
7. Vital Harvest: Deriving Energy from Food
8. The Green World's Gift: Photosynthesis
9. The Links in Life's Chain: Genetics and Cell Division
10. Preparing for Sexual Reproduction: Meiosis
11. The First Geneticist: Mendel and His Discoveries
12. Units of Heredity: Chromosomes and Inheritance
13. Passing On Life's Information: DNA Structure and Replication
14. How Proteins Are Made: Genetic Transcription, Translation, and Regulation
15. The Future Isn't What It Used to Be: Biotechnology
16. An Introduction to Evolution: Charles Darwin, Evolutionary Thought, and the Evidence for Evolution
17. The Means of Evolution: Microevolution
18. The Outcomes of Evolution: Macroevolution
19. A Slow Unfolding: The History of Life on Earth
20. Arriving Late, Traveling Far: The Evolution of Human Beings
21. Viruses, Bacteria, Archaea, and Protists: The Diversity of Life 1
22. Fungi: The Diversity of Life 2
23. Animals: The Diversity of Life 3
24. Plants: The Diversity of Life 4
25. The Angiosperms: Form and Function in Flowering Plants
26. Body Support and Movement: The Integumentary, Skeletal, and Muscular Systems
27. Communication and Control 1: The Nervous System
28. Communication and Control 2: The Endocrine System
29. Defending the Body: The Immune System
30. Transport and Exchange 1: Blood and Breath
31. Transport and Exchange 2: Digestion, Nutrition, and Elimination
32. An Amazingly Detailed Script: Animal Development
33. How the Baby Came to Be: Human Reproduction
34. An Interactive Living World 1: Populations in Ecology
35. An Interactive Living World 2: Communities in Ecology

### ABOUT THE AUTHOR(S)

David Krogh has been writing about science for 27 years in newspapers, magazines, books, and for educational institutions. He is the author of *Smoking: The Artificial Passion*, an account of the pharmacological and cultural motivations behind the use of tobacco, which was nominated for the Los Angeles Times Book Prize in Science and Technology.



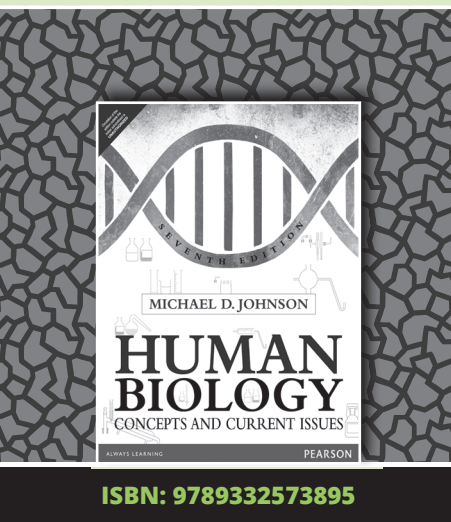
## Human Biology: Concepts and Current Issues, 7/e



Michael D Johnson



688 | © 2016



### ABOUT THE BOOK

Through his teaching, his textbook, and in his online blog, award-winning teacher Michael D. Johnson sparks the interest of today's science-intimidated student by connecting basic biology to real-world issues relevant to students' own lives. Through a storytelling approach and extensive online support, *Human Biology: Concepts and Current Issues, Seventh Edition* not only demystifies how the human body works but drives students to become better consumers of health and science information. Each chapter opens with Johnson's popular "Current Issues" essays, and BlogInFocus references within the chapter direct students to his frequently-updated

online blog for breaking human biology-related news.

The Seventh Edition offers stronger student self-assessment tools with new and expanded critical thinking questions throughout each chapter and in the end-of-chapter reviews.

### CONTENTS

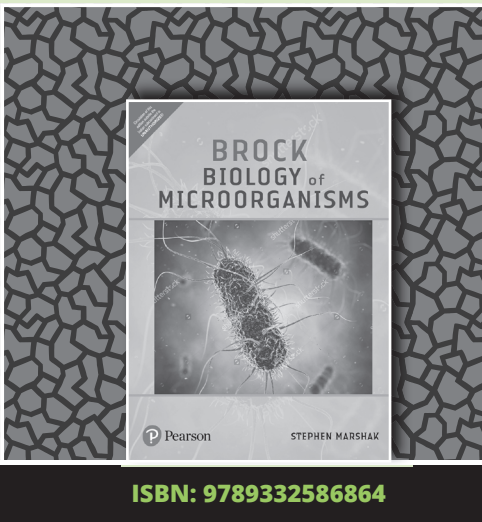
1. Human Biology, Science, and Society
2. The Chemistry of Living Things
3. Structure and Function of Cells
4. From Cells to Organ Systems
5. The Skeletal System
6. The Muscular System
7. Blood
8. Heart and Blood Vessels
9. The Respiratory System: Exchange of Gases
10. The Immune System and Mechanisms of Defense
11. The Nervous System: Integration and Control
12. Sensory Mechanisms
13. The Endocrine System
14. The Digestive System and Nutrition
15. The Urinary System
16. Reproductive Systems
17. Cell Reproduction and Differentiation
18. Cancer: Uncontrolled Cell Division and Differentiation
19. Genetics and Inheritance
20. DNA Technology and Genetic Engineering
21. Development and Aging
22. Evolution and the Origins of Life
23. Ecosystems and Populations
24. Human Impacts, Biodiversity, and Environmental Issues

### ABOUT THE AUTHOR(S)

**Dr. Michael D. Johnson** earned his B.S. degree in Zoology from Washington State University and then moved East to earn a Ph.D. in physiology from the University of Michigan. After completing a Postdoctoral Research Fellowship at Harvard Medical School he joined the faculty of West Virginia University, where he remained for most of his career.

From 2001 to 2006 Dr. Johnson resided in the Sultanate of Oman, where he served as Founding Dean of a new medical school being built in academic partnership with West Virginia University. Following a brief period back home at West Virginia University, in 2008 he moved to Qatar to take the position of Associate Dean for Premedical Education at Weill Cornell Medical College in Qatar. He returned to the United States in 2011 to concentrate on writing and on researching topics of interest in Human Biology.

Dr. Johnson received several teaching awards during his career, including the West Virginia University Foundation Outstanding Teacher award and the Distinguished Teacher Award of the School of Medicine. He is a member of the American Physiological Society, the Human Anatomy and Physiology Society, the National Association of Biology Teachers, and the American Association for the Advancement of Science.



ISBN: 9789332586864

## Brock Biology of Microorganisms, 14/e



Michael T. Madigan | John M. Martinko | Kelly S. Bender | Daniel H. Buckley | David A. Stahl



1040 | © 2017

### ABOUT THE BOOK

Helping Today's Students Learn Microbiology.

The authoritative #1 textbook for introductory majors microbiology, *Brock Biology of Microorganisms, 14e* continues to set the standard for impeccable scholarship, accuracy, and outstanding illustrations and photos. This book for biology, microbiology, and other science majors balances cutting edge research with the concepts essential for understanding the field of microbiology, including strong coverage of ecology, evolution, and metabolism.

The Fourteenth Edition seamlessly integrates the most current science, paying particular attention to molecular biology and how the genomic revolution has changed and is changing the field. This edition offers a streamlined, modern organization with a consistent level of detail and updated, visually compelling art program.

### FEATURES

- Focus on today's learners
- NEW! Streamlined organization better suits how instructors structure their courses, organizing course topics by 6 units consisting of 32 chapters. The Fourteenth Edition effectively and efficiently introduces students to the foundation and science of microbiology in a modern, appropriate organization.
- NEW! Molecular microbiology and genomics are introduced early in the text and discussed throughout multiple chapters for a more integrated, comprehensive introduction to the field.
- NEW! MicrobiologyNow chapter openers focus on current research problems and discoveries contextualizing chapter content and adding interest with content
- REVISED! A renamed "Explore the Microbial World" box feature (formerly "Microbial Sidebar") places greater emphasis on engaging research and discoveries from multiple microbiology disciplines.
- NEW! Updates have been made to all chapters, tables, boxes, and statistics with the latest data available.
- The Big Ideas at the end of each chapter review the core principles in the chapter by summarizing each section in 2–3 sentences.
- MiniQuizzes concluding each section contain 3–4 questions that give students an opportunity to stop and think about the core principles of each section.
- Extensive and accurate coverage of microbiology make this text a trusted name and valuable reference.
- Well organized and easy to understand writing style. Each author brings superb teaching and research knowledge to the book, with care to cover each topic and discipline appropriately and accurately. Dr. Madigan, as the general editor, provides a consistent voice and writing style to guide students throughout the course providing the best of both worlds: extensive coverage of all of the topics in microbiology as well as a consistent pedagogy and approach.
- Teach tough topics with superior art
- UPDATED! A heavily revised art program provides the consistency and context students need to understand this visual science. Updates include new illustrations and photos, as well as significant art style updates including:
  - Step/process art
  - DNA, RNA, and mRNA pipe style
  - Cell membranes
  - Cell style
  - Phylogenetic trees
  - Keys
  - Glassware
- NEW! Interior text design with a bold color palette, color screens, rules, more distinct heads, and new table design.

### CONTENTS

#### I. The Foundations of Microbiology

1. Microorganisms and Microbiology
2. Microbial Cell Structure and

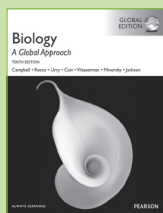
- Function
3. Nutrition, Culture, and Metabolism
4. Molecular Microbiology

#### 5. Microbial Growth and Growth Control

#### II. Genomics, Genetics, and Virology

6. Microbial Genomics
7. Metabolic Regulation
8. Genetics of Bacteria and Archaea
9. Viruses and Virology
10. Genomics and Phylogeny of Viruses
11. Genetic Engineering and Biotechnology
- III. Metabolic and Microbial Diversity**
  12. Metabolic Diversity of Bacteria and Archaea
  13. Microbial Evolution and Systematics
  14. Phylogenetic Diversity of Bacteria
15. Functional and Ecological Diversity of Bacteria
16. Diversity of Archaea
17. Diversity of Microbial Eukarya
- IV. Microbial Ecology and Environmental Microbiology**
  18. Tools of the Microbial Ecologist
  19. Microbial Ecosystems
  20. Nutrient Cycles in Nature
  21. Microbiology of the Built Environment
  22. Microbial Symbioses
- V. Pathogenicity and Immunology**
  23. Microbial Interactions with Humans
24. Principles of Immunology and Host Defense
25. Immune Mechanisms
26. Molecular Immunology
27. Clinical Microbiology and Immunology
- VI. Infectious Diseases and their Transmission**
  28. Epidemiology
  29. Person-to-Person Bacterial and Viral Diseases
  30. Vectorborne and Soilborne Bacterial and Viral Diseases
  31. Common Source Diseases: Food and Water
  32. Fungal and Parasitic Disease

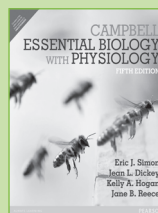
## ➡ ALSO AVAILABLE...



### **Biology, A Global Approach, 10/e**

**ISBN: 9781292008653**

**Pages: 1512**

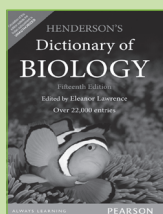


### **Campbell Essential Biology with Physiology, 5/e**

**ISBN: 9789332555372**

**Pages: 520**

## **DICTIONARY OF BIOLOGY: AVAILABLE TITLE**



### **Henderson's Dictionary of Biology, 15/e**

**ISBN: 9789332517400**

**Pages: 776**



## Biotechnology

---



## Biochemistry: Concepts and Connections



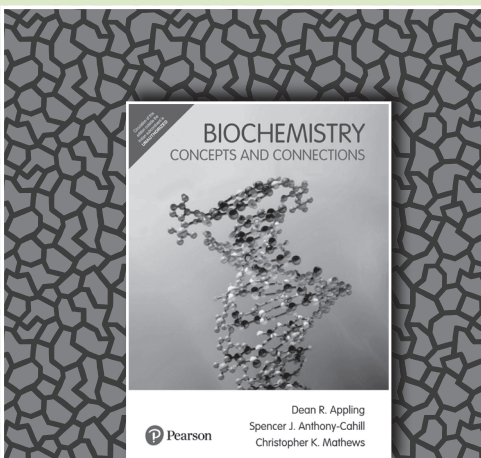
Dean R. Appling | Spencer J. Anthony-Cahill | Christopher K. Mathews



920



2016



ISBN: 9789332585454

### ABOUT THE BOOK

A highly visual, precise and fresh approach to guide today's mixed-science majors to a deeper understanding of biochemistry.

*Biochemistry: Concepts and Connections* engages students in the rapidly evolving field of biochemistry, better preparing them for the challenges of 21st century science through quantitative reasoning skills and a rich, chemical perspective on biological processes.

This concise first edition teaches mixed-science-majors the chemical logic underlying the mechanisms, pathways, and processes in living cells through groundbreak-

ing biochemical art and a clear narrative that illustrates biochemistry's relation to all other life sciences. Integration of biochemistry's experimental underpinnings alongside the presentation of modern techniques encourages students to appreciate and consider how their understanding of biochemistry can and will contribute to solving problems in medicine, agricultural sciences, environmental sciences, and forensics.

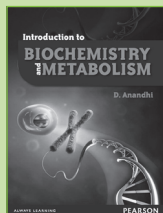
### FEATURES

- A striking art program designed specifically for teaching
- Modern science presented in a relevant way
- Organized with students in mind

### CONTENTS

1. Biochemistry and the Language of Chemistry
2. The Chemical Foundation of Life: Weak Interactions in an Aqueous Environment
3. The Energetics of Life
4. Nucleic Acids
5. Introduction to Proteins: The Primary Level of Protein Structure
6. The Three-Dimensional Structure of Proteins
7. Protein Function and Evolution
8. Enzymes: Biological Catalysts
9. Carbohydrates: Sugars, Saccharides, Glycans
10. Lipids, Membranes, and Cellular Transport
11. Chemical Logic of Metabolism
12. Carbohydrate Metabolism: Glycolysis, Gluconeogenesis, Glycogen Metabolism, and the Pentose Phosphate Pathway
13. The Citric Acid Cycle
14. Electron Transport, Oxidative Phosphorylation, and Oxygen Metabolism
15. Photosynthesis
16. Lipid Metabolism
17. Interorgan and Intracellular Coordination of Energy Metabolism in Vertebrates
18. Amino Acid and Nitrogen Metabolism
19. Nucleotide Metabolism
20. Mechanisms of Signal Transduction
21. Genes, Genomes, and Chromosomes
22. DNA Replication
23. DNA Repair, Recombination, and Rearrangement
24. Transcription and Post-transcriptional Processing
25. Information Decoding: Translation and Post-translational Protein Processing
26. Regulation of Gene Expression

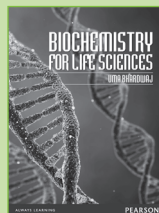
➡ ALSO AVAILABLE...



**Introduction to  
Biochemistry and  
Metabolism**

**ISBN: 9788131774854**

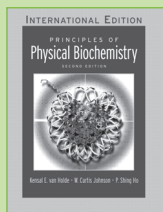
**Pages: 416**



**Biochemistry: for Life  
Sciences**

**ISBN: 9789332528475**

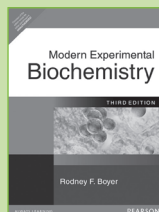
**Pages: 576**



**Principles of Physical  
Biochemistry**

**ISBN: 9780132017442**

**Pages: 752**




**Modern Experimental  
Biochemistry, 3/e**

**ISBN: 9788177588842**

**Pages: 480**



## Biostatistical Analysis, 5/e

 **Jerrold H. Zar**

 **760** |  **2014**

### ABOUT THE BOOK

Zar's *Biostatistical Analysis, Fifth Edition*, is the ideal textbook for graduate and undergraduate students seeking practical coverage of statistical analysis methods used by researchers to collect, summarize, analyze and draw conclusions from biological research. The latest edition of this best-selling textbook is both comprehensive and easy to read. It is suitable as an introduction for beginning students and as a comprehensive reference book for biological researchers and for advanced students.

This book is appropriate for a one- or two-semester, junior or graduate-level course in biostatistics, biometry, quantitative biology, or statistics, and assumes a prerequisite of algebra.

### FEATURES

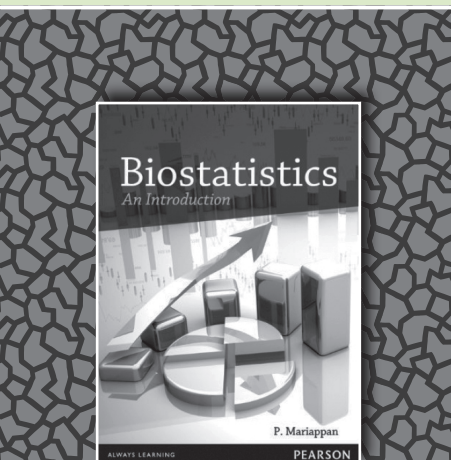
- A broad collection of data-analysis procedures and techniques are presented, covering a wide variety of biological research, such as physiology, genetics, ecology, behavior, morphology.
- The most comprehensive treatment available includes coverage of the basics of statistical analysis, and also the following topics rarely or never found in statistics books for biologists:
  - Diversity
  - Polynomial regression
  - Multidimensional contingency tables
  - Stepwise regression
  - Nonparametric multiple comparisons
  - Higher order factorial analyses
  - of variance
  - Circular distributions
  - Power and sample size determinations.
- An orderly organization and presentation of topics, with cross-referencing as appropriate.
- The readable and accessible approach allows students with no previous statistical background or mathematical expertise beyond simple algebra to understand the material presented.
- The thoughtful presentation encourages students to think about the value of each statistical technique, as opposed to merely plugging numbers into formulae.
- The exposition considers complex procedures such as factorial analysis of variance and multiple regression in terms of the interpretation of typical computer output.
- A wealth of graphs and other figures are integrated to visually support concepts under discussion.
- A uniquely comprehensive set of statistical tables—more than 40 in all—facilitates statistical analyses without having to consult a separate book. This includes tables that are unique to this book.
- Worked examples for all major procedures guide readers step-by-step through the techniques, demonstrating each of the important concepts.
- An extensive bibliography directs readers to further relevant literature.

### CONTENTS

- |   |  |  |
|---|--|--|
| 1. Data: Types and Presentations                        | 12. Two-Factor Analysis of Variance              | Correlation  |
| 2. Populations and Samples                              | 13. Data Transformations                         | 21. Polynomial Regression                          |
| 3. Measures of Central Tendency                         | 14. Multiway Factorial Analysis of Variance      | 22. Testing for Goodness of Fit                    |
| 4. Measures of Variability and Dispersion               | 15. Nested (Hierarchical) Analysis of Variance   | 23. Contingency Tables                             |
| 5. Probabilities  | 16. Multivariate Analysis of Variance            | 24. Dichotomous Variables                          |
| 6. The Normal Distribution                              | 17. Simple Linear Regression                     | 25. Testing for Randomness                         |
| 7. One-Sample Hypotheses                                | 18. Comparing Simple Linear Regression Equations | 26. Circular Distributions: Descriptive Statistics |
| 8. Two-Sample Hypotheses                                | 19. Simple Linear Correlation                    | 27. Circular Distributions: Hypothesis Testing     |
| 9. Paired-Sample Hypotheses                             | 20. Multiple Regression and                      | 28. Answers to Exercises                           |
| 10. Multisample Hypotheses and the Analysis of Variance |  | 29. Literature Cited                               |
| 11. Multiple Comparisons                                |  |  |

## ABOUT THE AUTHOR(S)

**Jerrold H. Zar** received his undergraduate degree in Biological Sciences from Northern Illinois University in 1962. He later earned his M.S. and Ph.D. degrees in biology and zoology from the University of Illinois at Urbana-Champaign. Zar then returned to Northern Illinois University for 34 years to serve in a variety of capacities. He joined the faculty at NIU as an Assistant Professor in 1968 and quickly rose through the ranks of associate and full professor to become Chair of the Department of Biological Sciences in 1978. He served two terms as Chair of the Department and then, became the Vice Provost for Graduate Studies and Research and Dean of the Graduate School. He was a founder of the Illinois Minority Graduate Incentive Program and the Illinois Consortium for Educational Opportunities Program, where he helped create and protect fellowship opportunities for minority graduate students at universities across the state. Zar is a member of 17 professional scientific societies, including being an elected fellow of the American Association for the Advancement of Science. His many research publications cover a range of topics, from statistical analysis to physiological adaptations of animals to their environment.



ISBN: 9788131775141

## Biostatistics: An Introduction



**P. Mariappan**



480



2013

## ABOUT THE BOOK

This textbook is exclusively designed for the undergraduate students of Botany, Biotechnology and Zoology for gaining fundamental knowledge on biostatistics and its applications. Adequate coverage has been provided to the concepts of biostatistics making this book useful in biological data management.

## Introduction to Biotechnology, 3/e



William J. Thieman | Michael A. Palladino



400 | © 2014

### ABOUT THE BOOK

Thoroughly updated for currency and with exciting new practical examples throughout, this popular text provides the tools, practice, and basic knowledge for success in the biotech workforce.

With its balanced coverage of basic cell and molecular biology, fundamental techniques, historical accounts, new advances, and hands-on applications, the Third Edition emphasizes the future of biotechnology and the biotechnology student's role in that future. Two new features—Forecasting the Future, and Making a Difference—along with several returning hallmark features, support the new focus.

### FEATURES

- Concise overviews examine cutting-edge techniques and concepts including Bioinformatics, Proteomics, and Genomics, as well as detailed information on agricultural, medical, forensic, and regulatory issues that impact the biotechnology industry.
- Career Profile Boxes in each chapter introduce students to different career paths in the biotechnology industry and provide detailed information on job functions, salaries, and guidance for preparing to enter the workforce.
- You Decide Boxes in each chapter stimulate ethical discussion by giving students questions and information relating to the social and ethical implications of biotechnology and regulations.
- Tools of the Trade Boxes provide details on modern techniques and methods related to each chapter's content and the biotech industry.
- End-of-Chapter Questions & Activities encourage students to apply what they've learned and include internet assignments that explore cutting edge topics. Suggested answers are provided in the Appendix.
- Abundant illustrations, instructional diagrams, and flow charts present modern images, step-by-step explanations of complex processes, and include new figures on the use of gene microarrays, PCR, and nanobiotechnology.
- Companion Website offers study aids, such as flashcards, a glossary, chapter reviews, and additional web resources.
- Instructor's Test Bank includes multiple choice questions for each chapter.
- A section on "Business of Biotechnology" in Chapter 1 describes biotech company organization and structure, top biotechnology and pharmaceutical companies, and features updated data on the biotechnology industry worldwide.

### CONTENTS

1. The Biotechnology Century and Its Workforce
2. An Introduction to Genes and Genomes
3. Recombinant DNA Technology and Genomics
4. Proteins as Products
5. Microbial Biotechnology
6. Plant Biotechnology
7. Animal Biotechnology
8. DNA Fingerprinting and Forensic Analysis
9. Bioremediation
10. Aquatic Biotechnology
11. Medical Biotechnology
12. Ethics and Biotechnology
- Appendix I: Answers to Questions
- Appendix II: The 20 Amino Acids of Proteins

### ABOUT THE AUTHOR(S)

William Thieman, formerly of Ventura College, chaired one of the leading biotech programs in California. Co-author Michael A. Palladino is a molecular biologist with considerable experience in directing undergraduate student research in recombinant DNA technology; he is co-author of *Concepts of Genetics, Tenth Edition*, *Essentials of Genetics, Seventh Edition*, as well as *Understanding the Human Genome Project, Second Edition*.

## Concepts of Genetics, 10/e



William S. Klug | Michael R. Cummings | Charlotte A. Spencer | Michael A. Palladino



896 | © 2016

### ABOUT THE BOOK

*Concepts of Genetics* is known for its focus on teaching core concepts and problem solving. This best-selling text has been extensively updated, with coverage on emerging topics in genetics, and problem-solving support has been enhanced.

### FEATURES

- Focus on the key concepts to help build a foundation for further study.
- Scientifically based. The text teaches students how to read and critically evaluate the current research.

- Every chapter is subdivided into a series of conceptual sections, each introduced by a Sentence Heading that summarizes the Principle being described in that section. In addition, the importance of scientific evidence is highlighted by including more than 50 graphs, histograms, and pie charts containing data from the scientific literature, each accompanied by a citation to the original source of the data.
- Art that Teaches. Each piece of art in the text has been carefully considered to ensure that readers can easily absorb the data.
- A Glossary containing a brief definition of every boldfaced term is included as a reference tool at the end of the book. Each definition is followed by one or more page references indicating where in the book the meaning of the term is described.

### CONTENTS

1. Introduction to Genetics
2. Mitosis and Meiosis
3. Mendelian Genetics
4. Extensions of Mendelian Ratios
5. Chromosome Mapping in Eukaryotes
6. Genetic Analysis and Mapping in Bacteria and Bacteriophages
7. Sex Determination and Sex Chromosomes
8. Chromosome Mutations: Variation in Number and Arrangement
9. Extranuclear Inheritance
10. DNA Structure and Analysis
11. DNA Replication and Recombination
12. DNA Organization in Chromosomes
13. The Genetic Code and Transcription
14. Translation and Proteins
15. Gene Mutation and DNA Repair, and Transposition
16. Regulation of Gene Expression in Prokaryotes
17. Regulation of Gene Expression in Eukaryotes
18. Developmental Genetics
19. Cancer and Regulation of the Cell Cycle
  - Special Topics in Modern Genetics, DNA Forensics
  - Special Topics in Modern Genetics, Genomics and Personalized Medicine
- Special Topics in Modern Genetics, Epigenetics
- Special Topics in Modern Genetics, Stem Cells
20. Recombinant DNA Technology and Gene Cloning
21. Genomics, Bioinformatics, and Proteomics
22. Quantitative Genetics and Multifactorial Traits
23. Applications and Ethics of Genetic Engineering and Biotechnology
24. Genetics and Behavior
25. Population and Evolutionary Genetics
26. Conservation Genetics

### ABOUT THE AUTHOR(S)


**William S. Klug** is an Emeritus Professor of Biology at The College of New Jersey (formerly Trenton State College) in Ewing, New Jersey, where he served as Chair of the Biology Department for 17 years.

**Michael R. Cummings** is Research Professor in the Department of Biological, Chemical, and Physical Sciences at Illinois Institute of Technology.

**Charlotte A. Spencer** is a retired Associate Professor from the Department of Oncology at the University of Alberta in Edmonton, Alberta, Canada.

**Michael A. Palladino** is Dean of the School of Science and Professor of Biology at Monmouth University in West Long Branch, New Jersey.

## iGenetics: A Molecular Approach, 3/e

 **Peter J. Russell**

 **864** |  **2106**

### ABOUT THE BOOK

With its modern chapter organization and new “Focus on Genomics” boxes, *iGenetics: A Molecular Approach* reflects the increasing molecular emphasis in today’s experimental study of genes while helping students develop problem-solving skills and an appreciation for classic experiments. Although molecular topics are presented first, instructors can assign the chapters in any sequence.

Pedagogical features such as chapter-opening “Key Questions” and strategically placed “Keynotes” help students to efficiently master genetic concepts. The Genetics Place Companion Website contains interactive iActivities and narrated animations that help students visualize and understand processes and concepts that are illustrated in the text.

**ISBN: 9789332571624**

### FEATURES

- Modern chapter organization covers all major areas of genetics, balancing molecular and classical aspects to give students an integrated view of genetic principles.
- The text’s inquiry-based approach engages students in the process of science.
- Step-by-step examples of problem solving throughout the book represent a wide range of topics and difficulty levels.
- Key Questions, appear at the beginning of each chapter, focus student attention in advance on the major concepts within their reading.
- Keynotes, strategically placed throughout the chapter, summarize important ideas and allow students to check their progress.

### CONTENTS

1. Genetics: An Introduction
2. DNA: The Genetic Material
3. DNA Replication
4. Gene Control of Proteins
5. Gene Expression: Transcription
6. Gene Expression: Translation
7. DNA Mutation, DNA Repair, and Transposable Elements
8. Genomics
9. Functional and Comparative Genomics
10. Recombinant DNA Technology
11. Mendelian Genetics
12. Chromosomal Basis of Inheritance
13. Extensions of and Deviations from Mendelian Genetic Principles
14. Genetic Mapping in Eukaryotes
15. Genetics of Bacteria and Bacteriophages
16. Variations in Chromosome Structure and Number
17. Regulation of Gene Expression in Bacteria and Bacteriophages
18. Regulation of Gene Expression in Eukaryotes
19. Genetic Analysis of Development
20. Genetics of Cancer
21. Quantitative Genetics
22. Population Genetics
23. Molecular Evolution



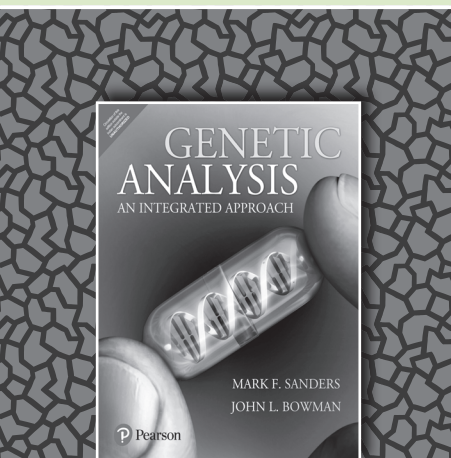
# Genetic Analysis: An Integrated Approach, 1e



Mark F. Sanders | John L. Bowman



872 | © 2016



ISBN: 9789332578555

## ABOUT THE BOOK

Informed by many years of genetics teaching and research experience, authors Mark Sanders and John Bowman use an integrative approach that helps contextualize three core challenges of learning genetics: solving problems, understanding evolution, and understanding the connection between traditional genetics models and more modern approaches.

## FEATURES

- An integrative problem-solving approach presents a consistent and effective strategy for students to work through genetics problems.
- Genetic Analysis sections guide students with a unique, three step approach that trains them to Evaluate, Deduce, and then Solve problems. Each Genetic Analysis is presented in a clear, two-column format
- Case Studies are short, real-world examples that appear at the end of every chapter and highlight central ideas or concepts of the chapter with interesting examples that remind students of some practical applications of genetics.
- Carefully crafted summaries and figures help students distill the most important “take home” lessons in each chapter.
- Genetic Insights appear several times within each chapter and help students recognize and understand key concepts at-a-glance.
- Foundation Figures integrate text and art to illustrate pivotal genetics concepts in a concise, easy-to-follow format.

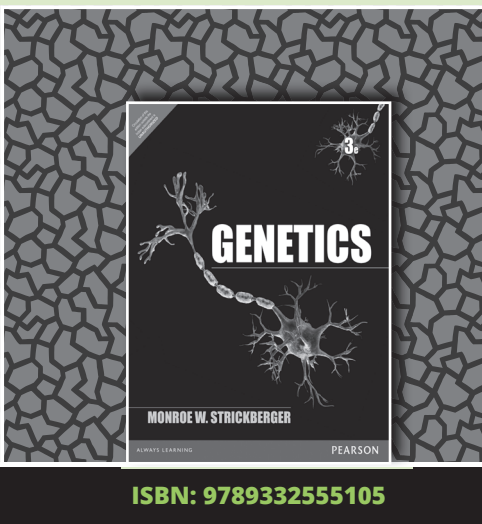
## CONTENTS

1. The Molecular Basis of Heredity, Variation, and Evolution
2. Transmission Genetics
3. Cell Division and Chromosome Heredity
4. Gene Interaction
5. Genetic Linkage and Mapping in Eukaryotes
6. Genetic Analysis and Mapping in Bacteria and Bacteriophage
7. DNA Structure and Replication
8. Molecular Biology of Transcription and RNA Processing
9. The Molecular Biology of Translation
10. The Integration of Genetic Approaches: Understanding Sickle Cell Disease
11. Chromosome Structure
12. Gene Mutation, DNA Repair, and Homologous Recombination
13. Chromosome Aberrations and Transposition
14. Regulation of Gene Expression in Bacteria and Bacteriophage
15. Regulation of Gene Expression in Eukaryotes
16. Forward Genetics and Recombinant DNA Technology
17. Applications of Recombinant DNA Technology and Reverse Genetics
18. Genomics: Genetics from a Whole-Genome Perspective
19. Cytoplasmic Inheritance and the Evolution of Organelle Genomes
20. Developmental Genetics
21. Genetic Analysis of Quantitative Traits
22. Population Genetics and Evolution

## ABOUT THE AUTHOR(S)

**Mark F. Sanders** has been a faculty member in the Department of Molecular and Cellular Biology at the University of California, Davis for 27 years. In that time, he has taught more than 120 genetics courses to more than 30,000 undergraduate students. Specializing in teaching the genetics course for which this book is written, Dr. Sanders also teaches a genetics laboratory course, an advanced human genetics course for biology majors, and a human heredity course for non-science majors. His teaching experience also includes introductory biology, and courses in population genetics and evolution.

**John L. Bowman** is a Professor in the School of Biological Sciences at Monash University in Melbourne, Australia and an Adjunct Professor in the Department of Plant Biology at the University of California, Davis in the US. He received a B.S. in Biochemistry at the University of Illinois at Urbana-Champaign, Illinois in 1986 and a Ph.D. in Biology from the California Institute of Technology in Pasadena, California. His Ph.D. research focused on how the identities floral organs are specified in *Arabidopsis* (described in Chapter 20).



## Genetics, 3/e



Monroe W. Strickberger



864 | © 2015

### ABOUT THE BOOK

*Genetics* occupies a unique central position among the various biological sciences because of its diverse specializations. This acclaimed book provides the basic theoretical information on genetics, the study of heredity and details some of the experiments and reasoning which yield this information. The book is organized into six parts and deals with the identification, transmission and distribution, arrangement, structure, and function of genetic material. The last part of the book deliberates on the course of genetic material in populations. The comprehensive material is supported by a multitude of illustrations and references and problems in every chapter.

### CONTENTS

#### Part I Identification Of Genetic Material:

1. History of the Problem
2. Cellular Division and Chromosomes
3. Reproductive Cycles
4. Nucleic Acids
5. Replication and Synthesis of Nucleic Acids

#### Part II Transmission And Distribution Of Genetic Material:

6. Mendelian Principles: I. Segregation
7. Mendelian Principles: II. Independent Assortment
8. Probability and Statistical Testing
9. Dominance Relations and Multiple Alleles in Diploid Organisms
10. Environmental Effects and Gene Expression

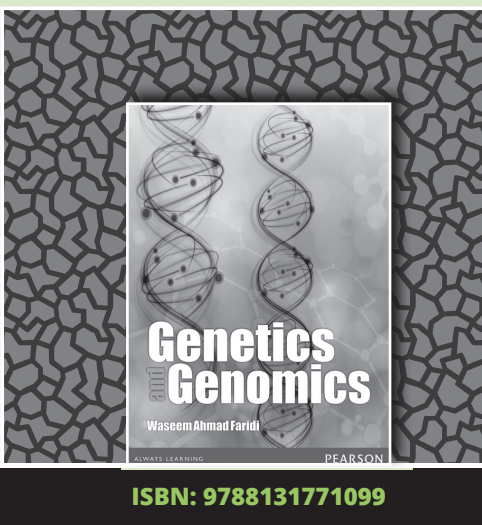
11. Gene Interaction and Lethality
12. Sex Determination and Sex Linkage in Diploids
13. Maternal Effects and Cytoplasmic Heredity
14. Quantitative Inheritance
15. Analysis of Quantitative Characters

#### Part III Arrangement Of Genetic Material:

16. Linkage and Recombination
17. Gene Mapping in Diploids
18. Recombination in Fungi
19. Recombination in Bacteria
20. Recombination in Viruses

#### Part IV Change And Structure Of Genetic Material:

21. Chromosome Variation in Number



## Genetics and Genomics



Dr. Waseem Ahmad Faridi



572 | © 2013

### ABOUT THE BOOK

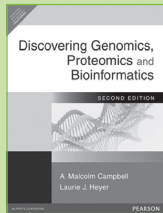
*Genetics and Genomics* provides an incredible blend of basic as well as applied knowledge and deals with the identification, transmission, structure and function of genetic material, recombinant DNA technology, and areas related to the expression and regulation of genome.

The book exhibits a thorough and enhanced approach to the conceptual understanding of the subject with latest examples and experiments. Being a multidisciplinary subject, the book would be a great asset for students studying zoology, botany, biochemistry, genetics and genomics, cytology, cytogenetics, cell and molecular

biology. Students of toxicology, genotoxicity and environmental biology, human genetics, medical and clinical genetics, paramedical and allied sciences would also find the book useful.



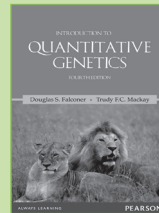
➡ ALSO AVAILABLE...



**Discovering Genomics,  
Proteomics and  
Bioinformatics, 2/e**

**ISBN: 9788131715598**

**Pages: 464**



**Introduction to  
Quantitative Genetics, 4/e**

**ISBN: 9788131727409**

**Pages: 480**



**Nanotechnology: A Gentle  
Introduction to  
the Next Big Idea**

**ISBN: 9788177587432**

**Pages: 280**

 Charles J. Krebs

 656 |  2016

### ABOUT THE BOOK

Charles Krebs' best-selling majors-level text approaches ecology as a series of problems that are best understood by evaluating empirical evidence through data analysis and application of quantitative reasoning. No other text presents analytical, quantitative, and statistical ecological information in an equally accessible style for students. Reflecting the way ecologists actually practice, the new edition emphasizes the role of experiments in testing ecological ideas and discusses many contemporary and controversial problems related to distribution and abundance.

*Ecology: The Experimental Analysis of Distribution and Abundance, Sixth Edition*

builds on a clear writing style, historical perspective, and emphasis on data analysis with an updated, reorganized discussion of key topics and two new chapters on climate change and animal behavior. Key concepts and key terms are now included at the beginning of each chapter to help students focus on what is most important within each chapter, mathematical analyses are broken down step by step in a new feature called "Working with the Data," concepts are reinforced throughout the text with examples from the literature, and end-of-chapter questions and problems emphasize application.

### FEATURES

- Selected topics have been reorganized and condensed in response to feedback from professors and students.
- Chapter 8: Population Parameters and Demographic Techniques streamlines material from Chapters 9 and 10 of the Fifth Edition,
- Chapters 5 and Chapter 6 have also been reorganized to summarize concepts from Chapters 4 to 7 of the Fifth Edition.
- Key concepts have moved from the end of each chapter to the beginning of each chapter to assist students in identifying and reviewing topics that are explored in the chapter.
- Profiles of eminent ecologists add a historical perspective and demonstrate that ecology is a very human activity.
- A unique problems-oriented approach raises a question in each chapter about how populations and communities operate in nature, and then provides information to help students think critically about the problem.

### CONTENTS

1. Introduction to the Science of Ecology
2. Evolution and Ecology
3. Behavioral Ecology
4. Analyzing Geographic Distributions
5. Factors That Limit Distributions I: Biotic
6. Factors That Limit Distributions II: Abiotic
7. Distribution and Abundance
8. Population Parameters and Demographic Techniques
9. Population Growth
10. Species Interactions I: Competition
11. Species Interactions II: Predation
12. Species Interactions III: Herbivory and Mutualism
13. Species Interactions IV: Disease and Parasitism
14. Regulation of Population Size
15. Applied Problems I: Harvesting Populations
16. Applied Problems II: Pest Control
17. Applied Problems III: Conservation Biology
18. Community Structure in Space: Biodiversity
19. Community Structure in Time: Succession
20. Community Dynamics I: Predation and Competition in Equilibrial Communities
21. Community Dynamics II: Disturbance and Nonequilibrium Communities
22. Ecosystem Metabolism I: Primary Production
23. Ecosystem Metabolism II: Secondary Production
24. Ecosystem Metabolism III: Nutrient Cycles
25. Ecosystem Dynamics under Changing Climates
26. Ecosystem Health and Human Impacts

### ABOUT THE AUTHOR(S)

**Charles Krebs** is Emeritus Professor of Zoology at the University of British Columbia in Vancouver. He received his B.S. from the University of Minnesota and earned both his M.A. and Ph.D. from the University of British Columbia.

# Elements of Ecology, 8/e



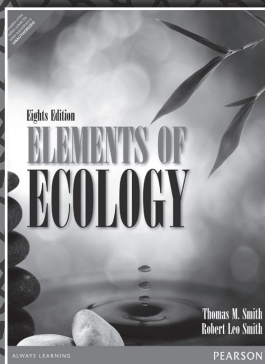
Thomas M. Smith | Robert Leo Smith



688 |



2014



ISBN: 9789332536692

## ABOUT THE BOOK

Known for its evolution theme and strong coverage of the relevance of ecology to everyday life and the human impact on ecosystems, the thoroughly revised Eighth Edition features refined quantitative exercises, a restructured chapter on life history, a thoroughly revised species interactions unit including a chapter introducing the subject, and a new chapter on species interactions.

To emphasize the dynamic and experimental nature of ecology, each chapter draws upon current research in the various fields of ecology while providing accessible examples that help students understand species natural history, specific ecosystems, the process of science, and ecological patterns at both an evolutionary and demographic scale.

To engage students in using and interpreting data, a wide variety of Quantifying Ecology boxes walk through step-by-step examples of equations and statistical techniques. The enhanced companion website ([www.ecologyplace.com](http://www.ecologyplace.com)) features new MapMaster™ interactive map activities for exploring ecosystems, physical environments, and populations at regional and global scales, along with popular GRAPHit!, and QUANTIFYit! exercises that help students further master and apply math skills, and a new Pearson eText.

## FEATURES

- Interpreting Ecological Data exercises help students test their understanding of graphs and data and to consider different outcomes.
- The Ecology Place companion website is referenced in the text and features new MapMaster interactive map activities for exploring ecosystems, physical environments, and populations at regional and global scales, along with popular GRAPHit!, and QUANTIFYit! exercises that help students further master and apply math skills, and a new Pearson eText. A subscription to the Ecology Place is included with each new copy of the text for no additional charge ([www.ecologyplace.com](http://www.ecologyplace.com)).
- Quantifying Ecology boxes help students develop the quantitative skills they need to interpret ecological data, research, and models. Skills are reinforced by a set of follow-up questions and links to GRAPHit! and QUANTIFYit! on the companion website ([www.ecologyplace.com](http://www.ecologyplace.com)).
- Field Studies discuss ecological research performed by young up-and-coming scientists, and challenge students to interpret the results of the featured research.
- Ecological Issues essays describe how humans influence the study of ecology. For example, the short essay “The Ecology of Antibiotic Resistance” discusses how antibiotic resistance is a result of natural selection. Each essay is followed by a set of critical thinking questions.
- Engaging introductions give students a “big picture” overview of the coming chapters in each of the eight parts of the book, so they can understand how various topics interrelate.
- Landscape Ecology chapter explores the role of disturbance in ecosystems.
- Further Readings at the end of each chapter emphasize how the text is based on real scientific studies. These Further Readings are annotated to explain their relevance to the student/instructor.

## CONTENTS

### I. The Physical Environment

2. Climate
3. The Aquatic Environment
4. The Terrestrial Environment

### II. The Organism and its Environment

5. Ecological Genetics: Adaptation and Natural Selection
6. Plant Adaptations to the Environment
7. Animal Adaptations to the Environment

### III. Populations

8. Properties of Populations
9. Population Growth
10. Life History
11. Intraspecific Population Regulation
12. Metapopulations

### IV. Species Interactions

13. Species Interactions, Population Dynamics and Natural Selection

- 14. Interspecific Competition
- 15. Predation
- 16. Parasitism and Mutualism

#### V. Community Ecology

- 17. Community Structure
- 18. Factors Influencing the Structure of Communities
- 19. Community Dynamics
- 20. Landscape Ecology

#### VI. Ecosystem Ecology

- 21. Ecosystem Energetics
- 22. Decomposition and Nutrient Cycling

- 23. Biogeochemical Cycles

#### VII. Biogeographical Ecology

- 24. Terrestrial Ecosystems
- 25. Coastal and Wetland Ecosystems
- 26. Land-Water Margins
- 27. Large-scale Patterns of Biological Diversity

#### VIII. Human Ecology

- 28. Population Growth, Resource Use, and Sustainability
- 29. Global Climate Change



## Concepts of Ecology, 4/e



Edward J. Kormondy



780 | © 2017

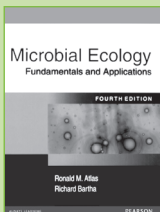
### ABOUT THE BOOK

The updated fourth edition of Concepts of Ecology, is an ideal text for those studying ecology for the first time—whether or not they've had a first-year course in biology. This hallmark text explores the significant concepts of modern ecology in an intelligible and easy to understand manner, using a minimum of jargon and only basic/simple mathematics.

### CONTENTS

- 1. Ecology and Ecosystems
- 2. The Abiotic Environment
- 3. Energy Flow in Ecosystems
- 4. Biogeochemical Cycles and Ecosystems
- 5. Population Ecology
- 6. Community Ecology
- 7. Major Ecosystems of the World
- 8. Human Ecology

### ➡ ALSO AVAILABLE...



### Microbial Ecology: Fundamentals and Applications, 4/e

ISBN: 9788131713846

Pages: 704

# The Elements of Immunology

 **Fahim Halim Khan**

 **508** |  **2009**

## ABOUT THE BOOK

*The Elements of Immunology* is designed to introduce readers to the exciting world of immunology, the people who populate it and foster a curiosity to question and know more. The book is supported by a consistent, colourful art programme. The detailed explanation of concepts and terms, and the deconstruction of complex molecular mechanisms into simple, easy-to-remember steps help students focus on the fundamentals without any distractions. Packed with extensive Web-based supplements, the book enables students to visualize concepts, thereby enriching the learning process. The book, comprising twenty chapters, has numerous peda-

gogical elements built into it. Margin snippets present interesting and relevant information without breaking the flow of the text. Margin definitions highlight the key terms for easy identification and recollection. Each chapter talks about a relevant molecular biology technique, thus providing an insight into the practical aspect of immunology as well. A glossary at the end of the book lists out the important terms used.

## FEATURES

- Simple and lucid language explaining core concepts
- Rich pedagogy that facilitates learning
- Colourful and consistent art programme comprising over 300 four-colour illustrations that helps to visualize and comprehend concepts better
- 400 end-of-chapter questions help revise the key concepts
- Discussion of the latest developments in the area of immunology such as MHC haplotype matching for cell transplantation, latest antiretroviral drugs developed against HIV, etc.
- Description of key contributors, researchers and their landmark experiments
- Packed with supplements and media resources
  - Over 30 animations that depict key concepts in three dimensions
  - A question bank containing over 400 questions and clinical case studies along with lecture slides including artwork from the book, as supplements to the text, specifically for the instructors

## CONTENTS

1. Introduction to the Immune System
2. Cells and Organs of the Immune System
3. Antigens
4. Antibodies
5. Generation of Antibody Diversity
6. Major Histocompatibility Complex
7. T-cell Receptor
8. T-cell Development and Activation
9. B-cell Development and Activation
10. Complement System
11. Antigen Processing and Presentation
12. Cell-mediated Immunity
13. Hypersensitivity
14. Cell Migration and Inflammatory Response
15. Immune Response to Infectious Agents
16. Vaccines
17. Transplantation Immunology
18. Cancer and the Immune System
19. Primary and Secondary Immunodeficiencies
20. Autoimmunity and Autoimmune Diseases

## ABOUT THE AUTHOR(S)

Fahim Halim Khan is an assistant professor of biochemistry at the Aligarh Muslim University.

## IPR, Biosafety and Bioethics



Dr Deepa Goel | Dr Shomini Parashar



248 |



2013

### ABOUT THE BOOK

This book provides a broad coverage of three areas of patenting intellectual property rights (IPR), biosafety and bioethics. It creates awareness about the value of IPR in our lives. The book also fosters a better understanding of the rights associated with IPR such as copyright, patent, trademarks, industrial designs, geographical indications and so on. Biosafety and bioethical issues prevalent in modern society are discussed. The text covers the complete syllabi of all major Indian universities and caters to the needs of Indian students.

### FEATURES

- Discusses all aspects of the subject in a simple and lucid manner
- Contains review question and multiple-choice questions for practice
- Provides unmatched pedagogy:
  - 100 review questions
  - 120 multiple-choice questions

### CONTENTS

1. Meaning and Justification of Patenting an Invention
2. History and Evolution of Patent Law
3. Classification of Patents
4. Grant of Patent and Patenting Authorities
5. Patent Owner: Rights and Duties
6. Protection of Plant varieties and Farmers' Right Act, 2001
7. Patent law- Present Scenario
8. Introduction to Biosafety
9. GMOs: Concerns and Challenges
10. National and International Regulatory Mechanism for GMO
11. Biosafety of Genetically Engineered Products
12. Allergenecity: Assessment of Genetically Modified food
13. Introduction to Bioethics
14. NGOs for Biosafety and Bioethics
15. Web-based Information of Biosafety on GMO
16. Good Laboratory Biosafety Practices
17. Case Studies in IPR and Biosafety

### ABOUT THE AUTHOR(S)

**Dr Deepa Goel** is Assistant Professor at the Department of Biotechnology, IMS Engineering College, Ghaziabad. Her core area of interest is the development of transgenic plants with elite traits.

**Ms Shomini Parashar** is Assistant Professor at the Department of Biotechnology, IMS Engineering College, Ghaziabad. Her core area of interest is screening of microbes with novel traits that are useful to mankind.



## Microbiology: An Introduction, 11/e



Gerard J. Tortora | Berdell R. Funke | Christine L. Case



984 | © 2016

### ABOUT THE BOOK

This #1 selling non-majors microbiology textbook is praised for its straightforward presentation of complex topics, careful balance of concepts and applications, and proven art that teaches. In its Eleventh Edition, Tortora, Funke, and Case's *Microbiology: An Introduction* helps students make the connection between microbiology and human health. This edition continues to incorporate the latest in microbiology research and includes more features designed to engage students and promote critical thinking.

With the complex and extensive information presented in introductory microbiology courses, demonstrating the connections between processes students can't

see with their naked eye and diseases they will encounter in future careers can be challenging. *Microbiology: An Introduction* guides students through the process of disease diagnosis, aided by the practical application of the new Clinical Cases that are integrated through every textbook chapter.

### FEATURES

- The text's proven illustration methods include Foundation figures that help students see the big picture and step-by-step diagrams that place explanatory text immediately next to the relevant art so students don't have to refer to lengthy legends to understand complex processes.
- Active learning pedagogy engages students through the use of figure legend questions with every figure. Check Your Understanding questions appear at key points throughout the chapters, encouraging students to engage interactively with the text and self-assess their understanding of the corresponding Learning Objectives.
- Diseases are organized by body system in the disease chapters (Chapters 21—26), which facilitates learning for students who are pursuing careers in health care fields and have taken an anatomy & physiology course that also organizes topics by body system.

### CONTENTS

#### I. Fundamentals of Microbiology

1. The Microbial World and You
2. Chemical Principles
3. Observing Microorganisms Through a Microscope
4. Functional Anatomy of Prokaryotic and Eukaryotic Cells
5. Microbial Metabolism
6. Microbial Growth
7. The Control of Microbial Growth
8. Microbial Genetics
9. Biotechnology and Recombinant DNA

#### II. A Survey of the Microbial World

10. Classification of Microorganisms
11. The Prokaryotes: Domains Bacteria and Archaea
12. The Eukaryotes: Fungi, Algae, Protozoa, and Helminths
13. Viruses, Viroids, and Prions

#### III. Interaction Between Microbe and Host

14. Principles of Disease and Epidemiology
15. Microbial Mechanisms of Pathogenicity
16. Innate Immunity: Nonspecific Defenses of the Host
17. Adaptive Immunity: Specific Defenses of the Host
18. Practical Applications of Immunology

19. Disorders Associated with the Immune System

20. Antimicrobial Drugs

#### IV. Microorganisms and Human Disease

21. Microbial Diseases of the Skin and Eyes
22. Microbial Diseases of the Nervous System
23. Microbial Diseases of the Cardiovascular and Lymphatic Systems
24. Microbial Diseases of the Respiratory System
25. Microbial Diseases of the Digestive System
26. Microbial Diseases of the Urinary and Reproductive Systems

#### V. Environmental and Applied Microbiology

27. Environmental Microbiology
  28. Applied and Industrial Microbiology
- Appendix A: Metabolic Pathways  
Appendix B: Exponents, Exponential Notation, Logarithms, and Generation Time  
Appendix C: Methods for Taking Clinical Samples  
Appendix D: Pronunciation of Scientific Names  
Appendix E: Word Roots Used in Microbiology  
Appendix F: Classification of Bacteria According to Bergey's Manual

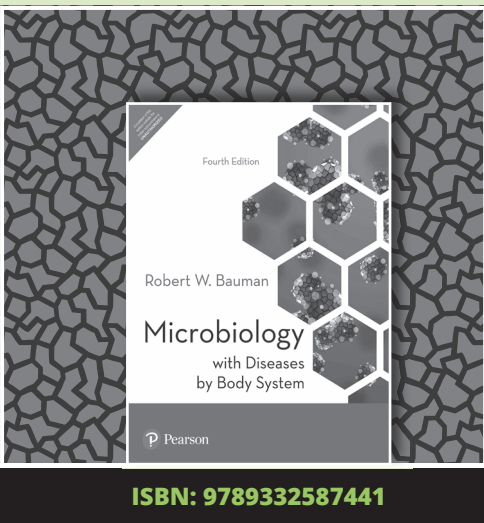


## ABOUT THE AUTHOR(S)

**Gerard J. Tortora** is a professor of biology and teaches microbiology, human anatomy, and physiology at Bergen Community College in Paramus, New Jersey.

**Berdell R. Funke** received his Ph.D., M.S., and B.S. in microbiology from Kansas State University. He has spent his professional years as a professor of microbiology at North Dakota State University.

**Christine L. Case** is a registered microbiologist and a professor of microbiology at Skyline College in San Bruno, California, where she has taught for the past 38 years. She received her EdD.



## Microbiology with Diseases by Body System, 3/e



**Robert W. Bauman**



**944 | © 2017**

## ABOUT THE BOOK

Designed for pre-nursing and allied health students (and also mixed-majors courses), *Microbiology with Diseases by Body System, Third Edition* retains the hallmark art program and clear writing style that have made Robert Bauman's book a success. This Third Edition features compelling clinical content related to students' future healthcare careers and abundant opportunities for applied student practice. Chapter-opening Clinical Cases, Emerging Diseases boxes, and Clinical Applications boxes introduce students to real-world clinical situations. Student comprehension is ensured with end-of-chapter practice that encompasses applied, visual, and conceptual understanding.

## CONTENTS

1. A Brief History of Microbiology
2. Cell Structure and Function
3. Microscopy, Staining, and Classification
4. Microbial Metabolism
5. Microbial Nutrition and Growth
6. Microbial Genetics
7. Recombinant DNA Technology
8. Controlling Microbial Growth in the Environment
9. Controlling Microbial Growth in the Body: Antimicrobial Drugs
10. Characterizing and Classifying Prokaryotes
11. Characterizing and Classifying Eukaryotes
12. Characterizing and Classifying Viruses, Viroids, and Prions
13. Infection, Infectious Diseases, and Epidemiology
14. Innate Immunity
15. Adaptive Immunity
16. Immunization and Immune Testing
17. AIDS and Other Immune Disorders
18. Microbial Diseases of the Skin and Wounds
19. Microbial Diseases of the Nervous System and Eyes
20. Microbial Cardiovascular and Systemic Diseases
21. Microbial Diseases of the Respiratory System
22. Microbial Diseases of the Digestive System
23. Microbial Diseases of the Urinary and Reproductive Systems
24. Applied and Environmental Microbiology

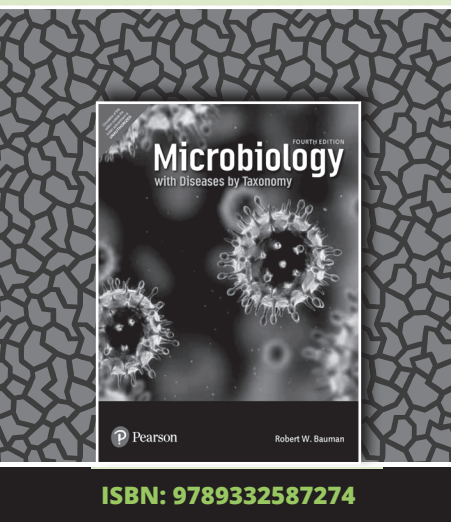
## Microbiology with Diseases by Taxonomy, 4/e



Robert W. Bauman



900 | © 2017



ISBN: 9789332587274

### ABOUT THE BOOK

The *Fourth Edition of Microbiology with Diseases by Taxonomy, 4e* is the most cutting-edge microbiology book available, offering unparalleled currency, accuracy, and assessment. The state-of-the-art approach includes 18 new Video Tutors written and developed by the author to walk students through key microbiology concepts, bringing the textbook to life. QR codes in the textbook enable students to use their smartphone or tablet to instantly interact with these step-by-step tutorials and visualize important concepts and processes. Compelling clinical case studies and emerging disease case studies give students opportunities to apply new knowl-

edge and explore real-world microbiology. Student comprehension is ensured with end-of-chapter practice that encompasses both visual and conceptual understanding. This edition retains the hallmark art program and clear writing style that have made Dr. Robert W. Bauman's book an engaging and successful introductory text.

### FEATURES

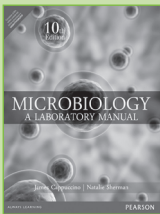
- Organization and Currency
  - The taxonomic organization of the disease chapters (Chapters 19—25) presents microbial diseases by type of pathogenic microbe, helping students recognize shared characteristics among categories of microbes.
  - Chapter 3 (Cell Structure and Function) de-emphasizes the term “prokaryote” (a term that is based on an outdated perception of taxonomy and is thus misleading to students) and instead emphasizes the three domains of living organisms, matching the latest taxonomic research. This state-of-the-science organization sets this book apart from all other allied health microbiology books.
  - The immunology chapters (Chapters 15—18), which have been and continue to be reviewed in-depth by immunology specialists, reflect the most current understanding of this rapidly-evolving field of any microbiology book available.
- Student Interest Features
  - Microbe-at-a-Glance boxes showcase representative microbes in each of the disease chapters. They feature an illustration of a microbe accompanied by very brief summaries of taxonomy, morphology, virulence factors, diseases caused, and treatment/prevention. These “snapshots” also appear as flashcards on the book’s website, giving students extra “on-the-go” practice and review opportunities.
  - Beneficial Microbe boxes emphasize the practical or benevolent nature and uses of microbes and help students overcome the common misconception that all microbes cause disease.
  - Clinical Case Study and Emerging Disease Case Study boxes are written in an engaging narrative voice and feature a patient’s experience with microbial diseases and follow-up critical thinking questions for students.
  - Highlight boxes appear throughout the text and focus on interesting topics in microbiology; e.g., what causes that “fishy” smell in fish markets, what allows some organisms to glow in the dark, how gold-mining microbes are used, and which cutting-edge molecular techniques are used in microbiology.
- Visually Superior Art Program
  - Half-illustration/half-micrograph 3D cellular art sets a new standard for teaching cellular structure.
  - Superior text-art integration breaks complex processes into smaller, more manageable pieces for students.
  - Colors and icons are used consistently throughout the text to make it easier for students to recognize structures and processes from chapter to chapter.
- Student Text Resources
  - Figure Legend Questions encourage critical thinking.
  - Critical Thinking Questions appear throughout the chapters and in the EOC section.
  - Answers to all end-of-chapter review questions (except Short Answers) are at the back of the book; answers to Short Answer questions are in the Instructor’s Manual. The answer section and appendices in this edition are tabbed for easy reference.

- TEM/SEM Designations, a feature regularly requested by instructors, appear in all micrographs and many illustrations.
- Pronunciations and Etymology Guides help students with pronouncing and remembering vocabulary.
- Concept Mapping exercises appear in the end-of-chapter material, guiding students to create their own concept maps from a list of key terms focused around an important chapter topic.

## CONTENTS

1. A Brief History of Microbiology
2. The Chemistry of Microbiology
3. Cell Structure and Function
4. Microscopy, Staining, and Classification
5. Microbial Metabolism
6. Microbial Nutrition and Growth
7. Microbial Genetics
8. Recombinant DNA Technology
9. Controlling Microbial Growth in the Environment
10. Controlling Microbial Growth in the Body: Antimicrobial Drugs
11. Characterizing and Classifying Prokaryotes
12. Characterizing and Classifying Eukaryotes
13. Characterizing and Classifying Viruses, Viroids, and Prions
14. Infection, Infectious Disease, and Epidemiology
15. Innate Immunity
16. Adaptive Immunity
17. Immunization and Immune Testing
18. Immune Disorders
19. Pathogenic Gram-Positive Bacteria
20. Pathogenic Gram-Negative Cocci and Bacilli
21. Rickettsias, Chlamydias, Spirochetes, and Vibrios
22. Pathogenic Fungi
23. Parasitic Protozoa, Helminths, and Arthropod Vectors
24. Pathogenic DNA Viruses
25. Pathogenic RNA Viruses
26. Applied and Environmental Microbiology

## ➡ ALSO AVAILABLE...



### **Microbiology: A Laboratory Manual, 10/e**

**ISBN: 9789332535190**

**Pages: 576**

## Becker's World of the Cell Technology Update, 8/e



Jeff Hardin | Gregory Paul Bertoni | Lewis J. Kleinsmith



912 | © 2015

### ABOUT THE BOOK

Widely praised for its strong biochemistry coverage, *Becker's World of the Cell, Eighth Edition Technology Update* provides a clear, up-to-date introduction to cell biology concepts, processes, and applications. Informed by many years of teaching the introductory cell biology course, the authors have added new emphasis on modern genetic/genomic/proteomic approaches to cell biology while using clear language to ensure that students comprehend the material. **Becker's World of the Cell** provides accessible and authoritative descriptions of all major principles, as well as unique scientific insights into visualization and applications of cell biology. Media

icons within the text and figures call attention to an enhanced media selection—350 up-to-date animations, videos, and activities—that helps students visualize concepts.

### FEATURES

- **Up-to-date information** has been added on the tools that modern cell biologists use, includes model organisms, bioinformatics, and genomics/proteomics.
- **Major reorganization of the cell cycle and apoptosis material**
- **Discussions of modern genetic and molecular techniques** provide important insights on cell biology and regenerative medicine including knockout and transgenic mice, stem cells, and the yeast two-hybrid system.
- **A greater focus is placed on new technologies**, such as nanotechnology, bioluminescence, x-ray crystallographic data, and genetic engineering of animals and transgenic plants
- **Multi-level Problem Sets** at the end of each chapter help to develop students' abilities to analyze data, make generalizations and predictions, and apply their understanding to new situations.

### CONTENTS

1. A Preview of the Cell
2. The Chemistry of the Cell
3. The Macromolecules of the Cell
4. Cells and Organelles
5. Bioenergetics: The Flow of Energy in the Cell
6. Enzymes: The Catalysts of Life
7. Membranes: Their Structure, Function, and Chemistry
8. Transport Across Membranes: Overcoming the Permeability Barrier
9. Chemotrophic Energy Metabolism: Glycolysis and Fermentation
10. Chemotrophic Energy Metabolism: Aerobic Respiration
11. Phototrophic Energy Metabolism: Photosynthesis
12. The Endomembrane System and Peroxisomes
13. Signal Transduction Mechanisms: I. Electrical and Synaptic Signaling in Neurons
14. Signal Transduction Mechanisms: II. Messengers and Receptors
15. Cytoskeletal Systems
16. Cellular Movement: Motility and Contractility
17. Beyond the Cell: Cell Adhesion, Cell Junctions, and Extracellular Structures
18. The Structural Basis of Cellular Information: DNA, Chromosomes, and the Nucleus
19. The Cell Cycle, DNA Replication, and Mitosis
20. Sexual Reproduction, Meiosis, and Genetic Recombination
21. Gene Expression: I. The Genetic Code and Transcription
22. Gene Expression: II. Protein Synthesis and Sorting
23. The Regulation of Gene Expression
24. Cancer Cells

## Molecular Biology of the Gene, 7/e

 James D. Watson

 912 |  2017

### ABOUT THE BOOK

Now completely up-to-date with the latest research advances, the Seventh Edition of James D. Watson's classic book, *Molecular Biology of the Gene* retains the distinctive character of earlier editions that has made it the most widely used book in molecular biology. Twenty-two concise chapters, co-authored by six highly distinguished biologists, provide current, authoritative coverage of an exciting, fast-changing discipline.

### FEATURES

- Balanced coverage of prokaryotic and eukaryotic systems is included.
- To support the concise narrative, additional material can be found in essay boxes that are labeled in four categories:
- Key or Classic Experiments highlight influential experimental strategies that show students how we know what we know.
- Techniques include recent methods from the fields of bioinformatics and genomics.
- Advanced Concepts provide further discussions of key theories and principles.
- Medical Connections highlight how understanding basic mechanisms sheds light on—and may lead to treatment of—medical conditions and human diseases.

### CONTENTS

#### I. History

1. Mendelian View of the World
2. Nucleic Acids Convey Genetic Information

#### II. Structure and Study of Macromolecules

3. Weak and strong chemical bonds
4. The Structure of DNA
5. The Structure of RNA
6. The Structure of Proteins and Protein: Nucleic Acid Interactions
7. Techniques of Molecular Biology

#### III. Maintenance of the Genome

8. Genome Structure, Chromatin and the Nucleosome
9. The Replication of DNA
10. The Mutability and Repair of DNA

11. Homologous Recombination at the Molecular Level
12. Site Specific Recombination and Transposition of DNA

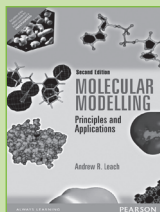
#### IV. Expression of the Genome

13. Mechanisms of Transcription
14. RNA Splicing
15. Translation
16. The Genetic Code
17. Origins and early evolution of life

#### V. Regulation

18. Transcriptional Regulation in Prokaryotes
19. Transcriptional Regulation in Eukaryotes
20. Regulatory RNAs
21. Gene Regulation in Development and Evolution
22. Systems Biology

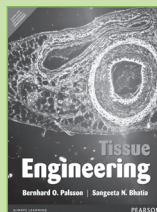
### ➡ ALSO AVAILABLE...



#### Molecular Modelling: Principles and Applications, 2/e

ISBN: 9788131728604

Pages: 768

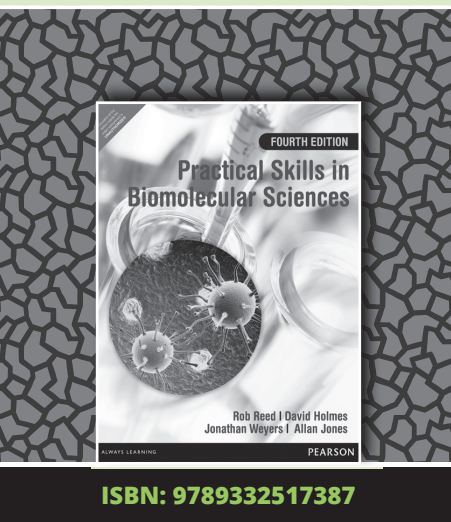


#### Tissue Engineering, 1/e


ISBN: 9789332571792

Pages: 432





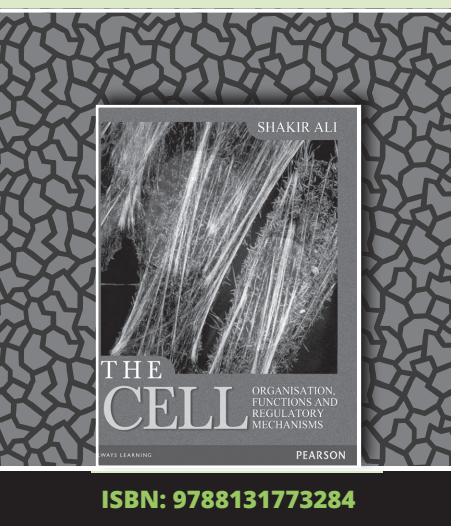
## Practical Skills in Biomolecular Sciences, 4/e

 **Jonathan Weyers**


 **576** |  **2014**

### ABOUT THE BOOK

If you are studying within the biomolecular sciences (including biochemistry, biomedical sciences, biotechnology, genetics, microbiology and molecular biology) then this book will be an indispensable companion throughout the whole of your degree programme. It provides effective support for the development of the laboratory and data analysis skills that you will draw on time and again for the practical aspects of your studies.



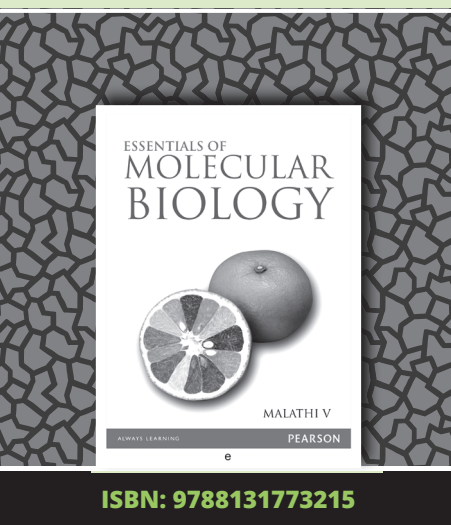
## The Cell: Organization, Functions and Regulatory Mechanisms

 **Shakir Ali**

 **376** |  **2014**

### ABOUT THE BOOK

*The Cell: Organisation, Functions and Regulatory Mechanisms* provides a precise blend of basic and applied knowledge of cell science that reinforces the conceptual understanding of the subject with leading edge examples and experiments. Catering to the prescribed curricula for a wide range of programmes in different universities and colleges, this book is ideal for undergraduate and postgraduate students who pursue a detailed study of the subject. The book will also serve as a standard resource material for teachers and scholars who may like to enrich their knowledge about the cell in areas pertaining to their specific fields of interest.



## Essentials of Molecular Biology

 **Malathi V**

 **468** |  **2012**

### ABOUT THE BOOK

This book provides an introduction to the concepts of molecular biology in strict adherence to the UGC curriculum for undergraduate students of biochemistry, microbiology, biotechnology, bioinformatics, botany and zoology offered by all Indian universities. Replete with vivid illustrations, the book probes the recent developments in epigenetics, drug discovery, genomics proteomics, prions and oncology. Exhaustive coverage of the fundamentals of molecular biology as well as comprehensive review questions and multiple-choice questions make this book a perfect text for classroom.

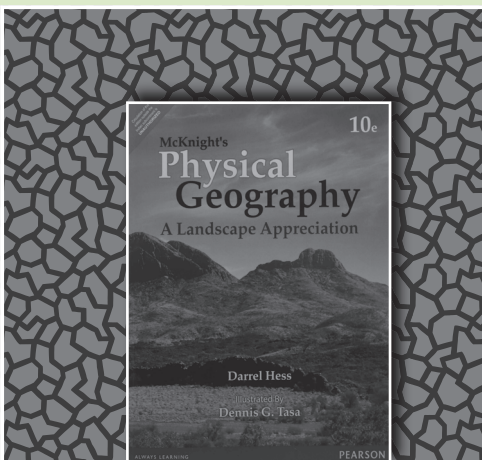


## Geology & Earth Science

---







ISBN: 9789332551909

## McKnight's Physical Geography: A Landscape Appreciation, 10/e

 **Darrel Hess** | **Dennis G. Tasa**

 **624** |  **2016**

### ABOUT THE BOOK

Carrying forth Tom L. McKnight's well-known thematic focus on landscape appreciation, this best-seller fosters a solid understanding of Earth and its physical geography. Its clear writing style, superior art program, and abundant pedagogy appeal to a wide variety of students. This edition includes thoroughly updated content and introduces renowned illustrator Dennis Tasa—yet it maintains the proven approach first presented by McKnight more than two decades ago.

### FEATURES

- Unique landscape appreciation approach and clear presentation of concepts make this hallmark classic text engaging and easily accessible to students of all backgrounds.
- An excellent new cartographic and illustration program by renowned geoscience Illustrator Dennis Tasa provides:
- Hundreds of maps with shaded relief where appropriate
- Line art with numerous multi-part illustrations that capture sequence and evolution to help students understand various processes
- Major photos paired with locator maps to enhance geographic literacy.
- Global environmental change is integrated and discussed extensively throughout the book.

### CONTENTS

1. Introduction to Earth
2. Portraying Earth
3. Introduction to the Atmosphere
4. Insolation and Temperature
5. Atmospheric Pressure and Wind
6. Atmospheric Moisture
7. Atmospheric Disturbances
8. Climate and Climate Change
9. The Hydrosphere
10. Cycles and Patterns in the Biosphere
11. Terrestrial Flora and Fauna
12. Soils
13. Introduction to Landform Study
14. The Internal Processes
15. Preliminaries to Erosion: Weathering and Mass Wasting
16. Fluvial Processes
17. Solution Processes and Karst Topography
18. The Topography of Arid Lands
19. Glacial Modification of Terrain
20. Coastal Processes and Terrain

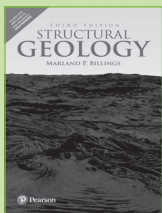
### ABOUT THE AUTHOR(S)

**Darrel Hess** is professor of geography at City College of San Francisco, where he served as chair of the Earth Sciences department from 1995-2009. He regularly teaches physical geography, economic geography, and human geography. Hess received his B.A. in geography from UC Berkeley and his M.A. in geography from UCLA.

**Dennis Tasa** has been a renowned illustrator of many bestselling geoscience textbooks since 1978, including Physical Geography by Darrel Hess, Laboratory Manual in Physical Geology by the American Geosciences Institute and the National Association of Geoscience Teachers, as well as the physical geology, Earth science, and meteorology franchises by Tarbuck and Lutgens.

**Tom L. McKnight** taught geography at UCLA from 1956 to 1993. He received his bachelor's degree in geology from Southern Methodist University in 1949, his master's degree in geography from the University of Colorado in 1951, and his Ph.D. in geography and meteorology from the University of Wisconsin in 1955. During his long academic career, Tom served as chair of the UCLA Department of Geography from 1978 to 1983, and was director of the University of California Education Abroad Program in Australia from 1984 to 1985.

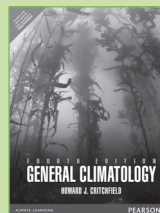
➡ ALSO AVAILABLE...



**Structural Geology, 3/e**

ISBN: 9789332577565

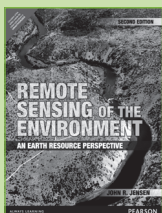
Pages: 624



**General Climatology, 4/e**

ISBN: 9789332555242

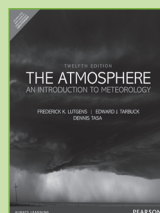
Pages: 464



**Remote Sensing of the Environment: An Earth Resource Perspective, 2/e**

ISBN: 9789332518940

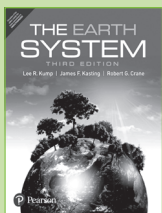
Pages: 618



**Atmosphere: An Introduction to Meteorology, 12/e**

ISBN: 9789332551817

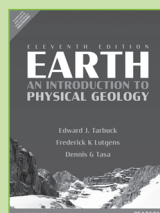
Pages: 528



**The Earth System, 3/e**

ISBN: 9789332575738

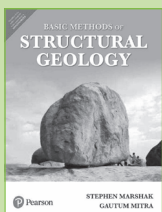
Pages: 472



**Earth: An Introduction to Physical Geology, 11/e**

ISBN: 9789332571662

Pages: 888



**Basic Methods of Structural Geology, 1e**

ISBN: 9789352864348

Pages: 464

## Essentials of Geology, 11/e



Frederick K Lutgens | Edward J. Tarbuck | Dennis G. Tasa



608 |



2017



ISBN: TBA

### ABOUT THE BOOK

With the renowned readability of the Lutgens/Tarbuck/Tasa team, the Eleventh Edition of *Essentials of Geology, 11e* continues to enhance both the approach and the visual presentation that have made this text a best-seller. This revision incorporates a new active learning approach throughout each chapter, which offers students a structured learning path and provides a reliable, consistent framework for mastering the chapter concepts. It also includes new additions to the visual program and current issues, such as climate change, are thoroughly updated.

### FEATURES

- **Writing style** — The language of this book is straightforward and written to be understood. Clear, readable discussions with a minimum of technical language are the rule.
- **Art** — Dennis Tasa, a gifted artist and respected geoscience illustrator, continues his outstanding illustrations in this edition, where they are truly an extension of the written story of geology.
- **Dependability** — Without question, Lutgens and Tarbuck textbooks have an unblemished reputation as the most dependable texts for geology and Earth science. Instructors can count on having a well-written, reliable book and thoroughly integrated and tested supplementary resources.
- **GEODE: Essentials of Geology** — Created by Dennis Tasa for visual and active learners, GEODE: Essentials of Geology provides narrated tutorials that integrate photography, animations, and video for interactive reinforcement of key concepts — now in an online format with this edition.

### CONTENTS

1. An Introduction to Geology
2. Matter and Minerals
3. Igneous Rocks and Intrusive Activity
4. Volcanoes and Volcanic Hazards
5. Weathering and Soils
6. Sedimentary Rocks
7. Metamorphism and Metamorphic Rocks
8. Mass Wasting: The Work of Gravity
9. Running Water
10. Groundwater
11. Glaciers and Glaciation
12. Deserts and Wind
13. Shorelines
14. Earthquakes and Earth's Interior
15. Plate Tectonics: A Scientific Theory Unfolds
16. Origin and Evolution of the Ocean Floor
17. Crustal Deformation and Mountain Building
18. Geologic Time
19. Earth's Evolution through Geologic Time
20. Global Climate Change
- Appendix A Metric and English Units Compared
- Appendix B Topographic Maps
- Appendix C Landforms of the Conterminous United States
- Index

# Introduction to Environmental Geology, 5/e



Edward A. Keller



792 | © 2018

## ABOUT THE BOOK

This text focuses on helping non-science majors develop an understanding of how geology and humanity interact. Ed Keller—the author who first defined the environmental geology curriculum—focuses on five fundamental concepts of environmental geology: Human Population Growth, Sustainability, Earth as a System, Hazardous Earth Processes, and Scientific Knowledge and Values. These concepts are introduced at the outset of the text, integrated throughout the text, and revisited at the end of each chapter. The Fifth Edition emphasizes currency, which is essential to this dynamic subject, and strengthens Keller's hallmark "Fundamental Concepts of Environmental Geology," unifying the text's diverse topics while applying the concepts to real-world examples.

## FEATURES

- Five Fundamental Concepts of Environmental Geology are introduced in Chapter 1 to unify the diverse topics in the text: Human Population Growth, Sustainability, Earth as a System, Hazardous Earth Processes, and Scientific Knowledge and Values. The connections are reinforced at the end of each chapter, where the chapter's topic is summarized in terms of these concepts (see "Revisiting Fundamental Concepts").
- Student-focused chapter structure includes consistent learning aids to maximize students' understanding of the material and review of major topics:
  - Learning objectives
  - Chapter summary
  - Detailed references at the end of each chapter
  - Key terms at the end of each chapter
  - Review questions
  - Critical-thinking questions that stimulate students to think about some of the important issues in the text and relate these to their lives and society.
- Environmental considerations are balanced with a solid presentation of the fundamental concepts and processes of physical geology, so that concepts covered later in the text are easier for students to understand.
- Comprehensive appendices help students grasp some of the more applied aspects of environmental geology and are also useful for supplementing laboratory exercises and field exercises. Appendices include:
  - Identification of rocks and minerals with accompanying tables and suggestions
  - Strength of rocks
  - Introduction to topographic and geologic maps with specific information concerning how to read topographic maps, construct topographic profiles, and understand geologic maps
  - Introduction to Digital Elevation Models (DEMs) and Global Positioning System instrumentation (GPS)
  - Discussion of how geologists determine and interpret geologic time
  - A glossary of terms used in the field of environmental geology

## CONTENTS

### Part One: Foundations of Environmental Geology

1. Philosophy and Fundamental Concepts
2. Internal Structure of Earth and Plate Tectonics
3. Minerals and Rocks
4. Ecology and Geology

### Part Two: Earth Processes and Natural Hazards

5. Introduction to Natural Hazards
6. Earthquakes and Related Phenomena
7. Tsunami (new chapter)
8. Volcanic Activity
9. Rivers and Flooding
10. Slope Processes, Landslides, and Subsidence

### 11. Coastal Processes

### 12. Impact of Extraterrestrial Objects

### Part Three: Resources and Pollution

13. Water Resources
14. Water Pollution
15. Mineral Resources
16. Energy Resources
17. Soils and Environment

### Part Four: Environmental Management, Global Perspective, and Society

18. Global Climate Change
19. Geology, Society, and the Future

## Essentials of Oceanography, 11/e



Alan P. Trujillo | Harold V. Thurman



608 |



2015

### ABOUT THE BOOK

How do the oceans work? *Essentials of Oceanography, Eleventh Edition*, takes an interdisciplinary approach to help students answer this question. The latest edition brings together the interrelated spheres that compose Earth's systems as they relate to the oceans: geological, chemical, physical, and biological. Trujillo and Thurman balance rigor and accessibility, combining in-depth discussions of oceanographic concepts with highly visual and interactive study aids to demystify the science for the non-science student. This unique combination has made *Essentials of Oceanography* the best-selling brief book—and one of the best-sellers overall—in oceanography.

### FEATURES

- Accessible language demystifies scientific terms by introducing each new term with its etymon (the true sense of a word) and helps maintain accessible rigor and depth of material, particularly in the coverage of tides and biological processes.
- Discussion of The Oceans and Climate Change (Ch. 16) includes detailed coverage of greenhouse gases and the unintended and severe changes in the ocean, such as ocean warming, more intense hurricanes, increasing ocean acidity, changes in deep-water circulation, melting of polar ice, and rising sea level.
  - Link the narrative to state-of-the-art computer animations created by Al Trujillo and a panel of geoscience educators.
  - Help students visualize some of the most
- **Key terms**, noted in bold print, are defined when introduced and are included in the glossary.
- and how action must be taken to reduce human-caused greenhouse gases.
- Popular “Students Sometimes Ask” feature answers common, and often entertaining, questions asked by real students (e.g., “Why do my fingers get all wrinkly when I stay in the water for a long time?”; “Can internal waves break?”)
- **End-of-chapter questions and exercises** help students self-check their understanding.
- **Geoscience Animations icons** throughout the text are provided to:
  - challenging oceanographic concepts.
  - Demonstrate animations of topics including Formation of Seamounts/Tablemounts and Stages of Coral Reef Development;
- The authors use the international metric system (Système International or **SI units**) with comparable English system units in parentheses

### CONTENTS

1. Introduction to Planet “Earth”
2. Plate Tectonics and the Ocean Floor
3. Marine Provinces
4. Marine Sediments
5. Water and Seawater
6. Air–Sea Interaction
7. Ocean Circulation
8. Waves and Water Dynamics
9. Tides
10. The Coast: Beaches and Shoreline Processes
11. The Coastal Ocean
12. Marine Life and the Marine Environment
13. Biological Productivity and Energy Transfer
14. Animals of the Benthic Environment
15. Animals of the Pelagic Environment
16. The Oceans and Climate Change

### ABOUT THE AUTHOR(S)

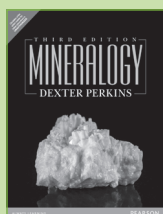
**Alan P. Trujillo** teaches at Palomar Community College in San Marcos, CA, where he is co-Director of the Oceanography Program and Chair of the Earth Sciences Department. He received his bachelor's degree in geology from the University of California at Davis and his master's degree in geology from Northern Arizona University, afterwards working for several years in industry as a development geologist, hydrogeologist, and computer specialist. Al began teaching in the Earth Sciences Department at Palomar in 1990 and in 1997 was awarded Palomar's Distinguished Faculty Award for Excellence in Teaching. He has co-authored *Introductory Oceanography* with Hal Thurman and is a contributing author for the textbooks *Earth and Earth Science*. In addition to writing and teaching, Al works as a naturalist and lecturer aboard



natural history expedition vessels in Alaska and the Sea of Cortez/Baja California. His research interests include beach processes, sea cliff erosion, and computer applications in oceanography.

**Harold V. Thurman** retired in May 1994, after 24 years of teaching in the Earth Sciences Department of Mt. San Antonio College in Walnut, California. Interest in geology led to a bachelor's degree from Oklahoma A&M University, followed by seven years working as a petroleum geologist, mainly in the Gulf of Mexico, where his interest in oceans developed. He earned a master's degree from California State University at Los Angeles and then joined the Earth sciences faculty at Mt. San Antonio College. Other books that Hal has co-authored *include* *Introductory Oceanography* (with Alan Trujillo) and a marine biology textbook. He has also written articles on the Pacific, Atlantic, Indian, and Arctic Oceans for the 1994 edition of World Book Encyclopedia and served as a consultant on the National Geographic publication *Realms of the Sea*.

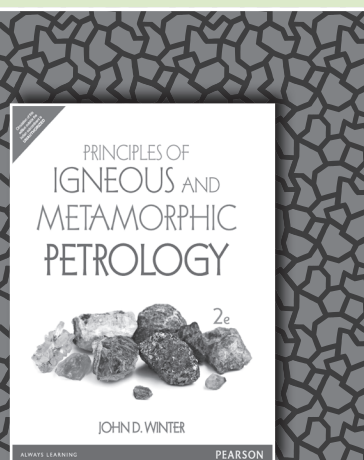
## MINERALOGY – AVAILABLE TITLE



**Mineralogy, 3/e**

**ISBN: 9789332550421**

**Pages: 453**



**ISBN: 9789332550407**

## Principles of Igneous and Metamorphic Petrology, 2/e



**John D. Winter**



**560 | © 2015**

### ABOUT THE BOOK

Typical texts on igneous and metamorphic petrology are geared to either advanced or novice petrology students. This unique text offers comprehensive, up-to-date coverage of both igneous and metamorphic petrology in a single volume—and provides the quantitative and technical background required to critically evaluate igneous and metamorphic phenomena in a way that students at all levels can understand. The goal throughout is for students to be able to apply the techniques—and enjoy the insights of the results—rather than tinker with theory and develop everything from first principles.

### FEATURES

- A balanced presentation limits the theory to the extent that students can practice it on real occurrences—without such excessive detail that the course becomes more like chemistry than geology.
- A survey of actual occurrences of igneous and metamorphic rocks, and processes that produce them, is provided. This section is often greatly condensed in most other texts, but it is the most interesting and dynamic aspect of petrology.
- A techniques/occurrences approach for both igneous and metamorphic rocks that first presents the techniques, then applies them to assess a field area, and then expands the techniques as necessary if the field examples call for it.



- A comprehensive section on petrogenesis, particularly igneous petrogenesis, covers important igneous petrogenetic associations
- An accessible approach to mathematics, chemistry, and physics requires only a working knowledge of algebra; calculus is occasionally discussed, but is not required. Chemical and physical principles are presented early on, and at a level that is comprehensible and accessible.
- Worked examples, problems, and computer-related problems, found at the end of many chapters, carefully integrate a number of problems and computer programs
- Spreadsheets are used extensively in worked examples and problems. Spreadsheets, data files, and other programs
- Approximately 350 figures and tables are provided.

## CONTENTS

### Part I Igneous Petrology

1. Some Fundamental Concepts
2. Classification and Nomenclature of Igneous Rocks
3. Textures of Igneous Rocks
4. Igneous Structures and Field Relationships
5. An Introduction to Thermodynamics
6. The Phase Rule and One- and Two-Component Systems
7. Systems with More than Two Components
8. Chemical Petrology I: Major and Minor Elements
9. Chemical Petrology II: Trace Elements and Isotopes
10. Generation of Basaltic Magmas
11. Magma Diversity
12. Layered Mafic Intrusions
13. Mid-Ocean Ridge Volcanism
14. Oceanic Intraplate Volcanism
15. Continental Flood Basalts
16. Subduction-Related Igneous Activity Part I: Island Arcs
17. Subduction-Related Igneous Activity Part II:

Continental Arcs

18. Granitoid Rocks
19. Continental Alkaline Magmatism
20. Anorthosites

### Part II Metamorphic Petrology

21. An Introduction to Metamorphism
22. A Classification of Metamorphic Rocks
23. Structures and Textures of Metamorphic Rocks
24. Stable Mineral Assemblages in Metamorphic Rocks
25. Metamorphic Facies and Metamorphosed Mafic Rocks
26. Metamorphic Reactions
27. Thermodynamics of Metamorphic Reactions
28. Metamorphism of Pelitic Sediments
29. Metamorphism of Calcareous and Ultramafic Rocks
30. Metamorphic Fluids, Mass Transport and Metasomatism

Appendix A: Units and Constants

Appendix B: Abbreviations and Acronyms

Appendix C: The CIPW Norm

## ABOUT THE AUTHOR(S)

**John D. Winter** did his undergraduate work in geology at the University of Illinois at Urbana, and earned his M.S. and Ph.D. at the University of Washington in Seattle. Now Professor of Geology at Whitman College in Walla Walla, Washington, his principal fields of interest are in metamorphic petrology, mineralogy and crystallography, and geochemistry. He has spent several summers in Greenland, a summer in Labrador, and another in Norway, where he studied processes that take place during the formation and subsequent development of the ancient deep continental crust. He is also working on contact metamorphism in the Wallowa Mountains of NE Oregon. Briefly, he also worked as an exploration geologist in New Guinea.

Professor Winter teaches Mineralogy, Igneous and Metamorphic Petrology, Introductory Geology, Environmental Geology, and Geochemistry. Outside the classroom, his interests include travel, mountaineering, hiking, mountain biking, and telemark skiing.





## Nursing

---



## Biochemistry for Nurses



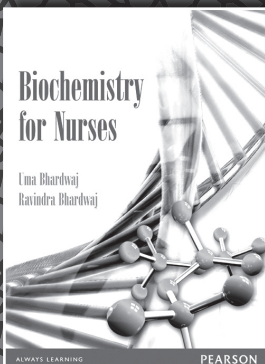
Dr. Uma Bhardwaj | Dr. R Bhardwaj



296 |



2012



ISBN: 9788131768563

### ABOUT THE BOOK

*Biochemistry for Nurses* has been designed considering the syllabi requirements laid down by The Indian Nursing Council and other premier institutes/universities. Book covers the most up-to-date developments in the area of Biochemistry and presents all the essential course information required for all UG course in an easy-to-follow and step-by-step format.

### FEATURES

- Detailed Interpretation and Investigation of metabolic disorders of biomolecules
- Simple and self-explanatory diagrams
- Multiple choice and review questions to test one's skills

### CONTENTS

1. Introduction
2. Structure and functions of Cell membrane
3. Composition and metabolism of Carbohydrates
4. Composition and metabolism of Lipids
5. Composition and metabolism of Amino acids and Proteins
6. Composition of Vitamins and Minerals
7. Immunochemistry
8. Composition and Metabolism of Nucleic Acids

### ABOUT THE AUTHOR(S)

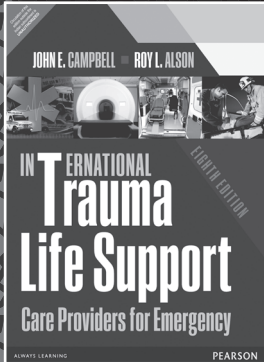
**Dr. Uma Bhardwaj** is an experienced Prof. of Biochemistry. Presently she is working as Sr. Director with Arni University. She is M.Sc gold medalist in Biochemistry, M.Tech and Ph.D. The author has published a number of research papers in national and international journals also published books. She is the chief editor of Arni University International journals of Science, Technology and Management. She has developed many formulations for commercial products Dr R Bhardwaj is currently Vice-chancellor and has been professor of Biochemistry from the young age of 34 years, teaching M Sc and Ph. D students. Prof R Bhardwaj is a world renowned distinguished scientist and a professor of biochemistry have published research papers in worlds top scientific journals like Nature and BBRC. He had developed biological solar cells with greater power conversion efficiency. Prof Bhardwaj has guided 11 PhD's and has a large number of research publications.



John E Campbell | Roy L Alson



432 | © 2016



ISBN: 9789332573857

## ABOUT THE BOOK

For basic trauma life support courses.

For more than 30 years, International Trauma Life Support has been at the forefront of trauma education at all levels of emergency care worldwide. This complete reference is filled with practical, hands-on training that guides readers through the hows and whys behind all of the skills necessary for rapid assessment, resuscitation, stabilization, and transportation of the trauma patient. Updated with the latest approaches to the care of the trauma patient, this Eighth Edition conforms to the most recent AHA/ILCOR guidelines for artificial ventilation and CPR.

## FEATURES

- This proven training book has been at the forefront of trauma education at all levels of pre-hospital emergency care worldwide for more than 30 years.
- NEW: In "Additional Skills," the use of the new FastResponder™ sternal IO has been added.
- UPDATED: In "Multicasualty Incidents and Triage," the discussion of various triage schemes has been expanded and now includes SALT Triage.
- UPDATED: In "Role of the Medical Helicopter," the data has been updated.
- NEW: In "Trauma Scoring in the Prehospital Care Setting," the CDC Trauma Triage Scheme is included.
- UPDATED: The "Tactical EMS" bibliography reflects current thinking within the Hartford Consensus.
- UPDATED: Coverage of the latest and most effective approaches to the care of the trauma patient prepares readers to become effective emergency care providers.
- NEW: Dr. Roy Alson has joined Dr. John Campbell as co-editor in chief for this edition. Dr. Alson is a board certified EM and EMS physician with extensive experience in EMS care and education and has been a contributor to the ITLS text and course for over 25 years.
- UPDATED: Conforms to the latest AHA/ILCOR guidelines for artificial ventilation and CPR.
- Management skills chapters follow the topic chapters to help reinforce learning.
- Each chapter opens with a Chapter Overview and Objectives to focus students' study time.
- Pearls feature quick references and reminders in the side margins, providing learners with reinforcement of difficult chapter concepts.
- Chapter Summaries wrap up each chapter, reviewing important concepts and revisiting the overview that opens up the chapter, forming a bridge between areas of focus and objectives.

## CONTENTS

- Scene Size-up
- Trauma Assessment and Management
- Assessment Skills
- Airway Management
- Airway Skills
- Thoracic Trauma
- Thoracic Trauma Skills
- Shock
- Vascular Access Skills
- Head Trauma and Traumatic Brain Injury
- Spinal Trauma and Patient-Centered Spinal Motion Restriction
- Spine Management Skills
- Abdominal Trauma
- Extremity Trauma
- Extremity Trauma Skills
- Burns
- Pediatric Trauma
- Geriatric Trauma
- Trauma in Pregnancy
- The Impaired Patient
- Trauma Arrest
- Standard Precautions and Transmission-Based Precautions

## ABOUT THE AUTHOR(S)

**John E. Campbell, MD, FACEP** Dr. Campbell received his BS degree in pharmacy from Auburn University in 1966 and his medical degree from the University of Alabama at Birmingham in 1970.

## Kozier & Erb's Fundamentals of Nursing: Concepts, Process and Practice, 10/e



Audrey Berman | Shirlee J. Snyder | GERALYN FRANDSEN



1536



2017

### ABOUT THE BOOK

Fundamentals of Nursing sets the foundation for nursing excellence. Coverage of the key concepts of contemporary nursing, as well as the latest nursing evidence, standards, and competencies, helps prepare readers to become effective nurses. To help students develop their clinical-reasoning abilities, new QSEN features draw connections to actual nursing practice. All basic and fundamental skills for the registered nurse are described within the nursing process. Students will learn to think like nurses as they see how the material they are reading is applied in nursing practice.

### FEATURES

- Clear, consistent presentation of nursing skills
- Evidence-Based Practice, Safety Alerts, and Interprofessional Practice
- Anatomy and Physiology Reviews and Assessment Interviews
- Concept Maps and Critical Thinking Checkpoints
- Nursing Care Plans with Applying Critical Thinking Questions

### CONTENTS

#### Unit 1: The Nature of Nursing

- Historical and Contemporary Nursing Practice
- Evidence-Based Practice and Research in Nursing
- Nursing Theories and Conceptual Frameworks
- Legal Aspects of Nursing
- Values, Ethics, and Advocacy

#### Unit 2: Contemporary Health Care

- Health Care Delivery Systems
- Community Nursing and Care Continuity
- Home Care
- Electronic Health Records and Information Technology

#### Unit 3: The Nursing Process

- Critical Thinking and Clinical Reasoning
- Assessing
- Diagnosing
- Planning
- Implementing and Evaluating
- Documenting and Reporting

#### Unit 4: Health Beliefs and Practices

- Health Promotion
- Health, Wellness, and Illness
- Culturally Responsive Nursing Care
- Complementary and Alternative Healing Modalities

#### Unit 5: Lifespan Development

- Concepts of Growth and Development

- Promoting Health from Conception Through Adolescence

- Promoting Health in Young and Middle-Aged Adults
- Promoting Health in Older Adults
- Promoting Family Health

#### Unit 6: Integral Aspects of Nursing

- Caring
- Communicating
- Teaching
- Leading, Managing, and Delegating

#### Unit 7: Assessing Health

- Vital Signs
- Health Assessment

#### Unit 8: Integral Components of Client Care

- Asepsis
- Safety
- Hygiene
- Diagnostic Testing
- Medications
- Skin Integrity and Wound Care
- Perioperative Nursing

#### Unit 9: Promoting Psychosocial Health

- Sensory Perception
- Self-Concept
- Sexuality
- Spirituality



- Stress and Coping
- Loss, Grieving, and Death

#### Unit 10: Promoting Physiological Health

- Activity and Exercise
- Sleep
- Pain Management

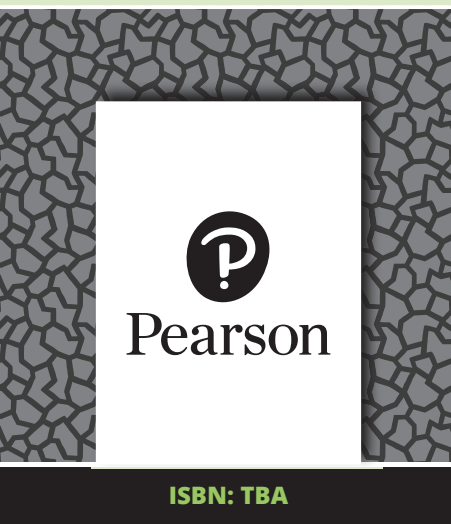
- Nutrition
- Urinary Elimination
- Fecal Elimination
- Oxygenation
- Circulation
- Fluid, Electrolyte, and Acid—Base Balance

#### ABOUT THE AUTHOR(S)

Audrey Berman, PhD, RN Professor, Dean, Nursing, Samuel Merritt University, Oakland, California

Shirlee J. Snyder, EdD, RN, Former Dean and Professor, Nursing, Nevada State College, Henderson, Nevada

Geralyn Frandsen, EdD, RN, Professor of Nursing, Maryville University St. Louis, Missouri



#### Medical-Surgical Nursing – Clinical Reasoning in Patient Care 6/e



Priscilla T LeMone | Karen M. Burke | Gerene Bauldoff | Paula Gubrud



1848 | © 2018

#### ABOUT THE BOOK

Medical-Surgical Nursing, Sixth Edition provides students with the practical knowledge and skills they need to care for adult patients—without overwhelming them with a laundry list of diseases and disorders that are beyond the beginning nurse's scope of practice. Readers are given the tools they need to understand the underlying pathophysiology of disease and to develop their clinical-reasoning ability so that they can make effective decisions and begin to think like a nurse.

#### CONTENTS

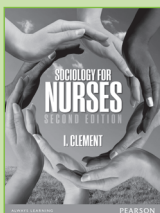
- |   |   |
|---|---|
| Part I Medical-Surgical Nursing Practice              | Part IV Activity-Exercise Patterns                    |
| 1. Dimensions of Medical-Surgical Nursing             | 8. Responses to Altered Cardiovascular Function       |
| 2. Informatics and Evidence-based Practice in Nursing | 9. Responses to Altered Respiratory Function          |
| 3. Health and Illness Care of Adults                  | 10. Responses to Altered Musculoskeletal Function     |
| Part II Nutritional-Metabolic Patterns                | Part V Cognitive-Perceptual Patterns                  |
| 4. Responses to Altered Integumentary Function        | 11. Responses to Altered Neurologic Function          |
| 5. Responses to Altered Endocrine Function            | 12. Responses to Altered Eye and Ear Function         |
| 6. Responses to Altered Gastrointestinal Function     | Part VI Sexuality-Reproductive Patterns               |
| Part III Elimination Patterns                         | 13. Responses to Altered Sexual-Reproductive Function |
| 7. Responses to Altered Urinary Elimination           |   |

#### ABOUT THE AUTHOR(S)

Priscilla T LeMone, University of Missouri & Columbia (retired)

Karen M. Burke, Education Consultant for the Oregon State Board of Nursing

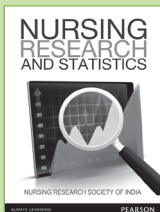
Gerene Bauldoff, RN, PhD, FAAN, Associate Professor of Clinical Nursing, The Ohio State University, Columbus, Ohio



### Sociology for Nurses

ISBN: 9789332525269

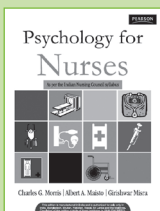
Pages: 584



### Nursing Research and Statistics

ISBN: 9788131775707

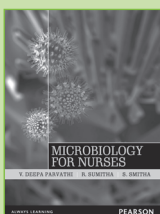
Pages: 424



### Psychology for Nurses

ISBN: 9788131732168

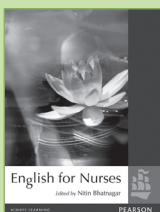
Pages: 260



### Microbiology for Nurses

ISBN: 9789332525276

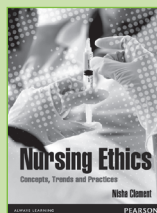
Pages: 408



### English for Nurses

ISBN: 9788131769621

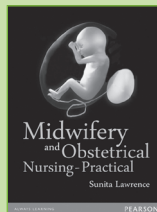
Pages: 128



### Nursing Ethics: Concepts, Trends and Practices

ISBN: 9788131773345

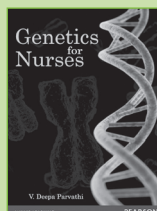
Pages: 424



### Midwifery and Obstetrical Nursing - Practical, 1/e

ISBN: 9788131773451

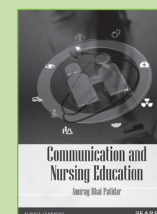
Pages: 224



### Genetics for Nurses

ISBN: 9788131768877

Pages: 380



### Communication and Nursing Education

ISBN: 9788131788394

Pages: 384



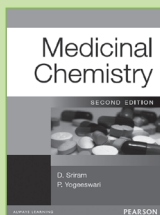


**Pharmacy**

---



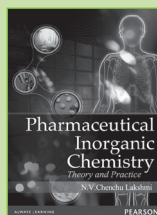
# PHARMACY AVAILABLE TITLES



**Medicinal Chemistry, 2/e**

ISBN: 9788131731444

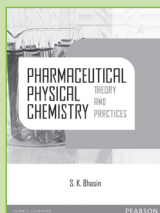
Pages: 712



**Pharmaceutical Inorganic chemistry: Theory and practice**

ISBN: 9788131769409

Pages: 430



**Pharmaceutical Physical Chemistry: Theory and Practices**

ISBN: 9788131765272

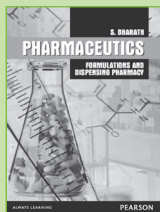
Pages: 575



**Pharmaceutical Analysis**

ISBN: 9788131773697

Pages: 668



**Pharmaceutics: Formulations and Dispensing Pharmacy**

ISBN: 9788131795453

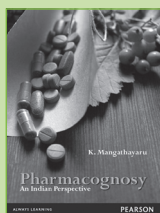
Pages: 304



**Pharmaceutical Technology: Concepts and Applications**

ISBN: 9788131795460

Pages: 344



**Pharmacognosy: An Indian Perspective**

ISBN: 9788131797266

Pages: 472



**Introducing Pharmacology: For Nursing and Healthcare, 2/e**

ISBN: 9789332517295

Pages: 368







## AUTHOR INDEX

ISBN	Author	Title	Price	Page
9789332555181	Acquaah	Principles of Crop Production: Theory, Techniques, and Technology 2e	929.00	2
9789332556942	Acquaah	Horticulture: Principles and Practices 4e	929.00	3
9788131773284	Ali	The Cell: Organization, Functions and Regulatory Mechanisms	679.00	52
9788131774854	Anandhi	Introduction to Biochemistry and Metabolism	419.00	32
9789332585454	Appling	Biochemistry: Concepts and Connections, 1/e	849.00	31
9788131713846	Atlas	Microbial Ecology: Fundamentals and Applications, 4e	779.00	43
9789332570986	Audesirk	Biology: Life on Earth with Physiology, 10/e	989.00	19
9789332587441	Bauman	Microbiology with Diseases by Body System, 4/e	1299.00	47
9789332587274	Bauman	Microbiology with Diseases by Taxonomy, 4/e	1299.00	48
9789332584372	Berman	Kozier and Erb's Fundamentals of Nursing: Concepts, Process and Practice, 10/e	1899.00	67
9789332571792	Bernhard O. Palsson	Tissue Engineering, 1/e	649.00	51
9788131795453	Bharath	Pharmaceutics-Formulations and Dispensing Pharmacy	329.00	73
9788131795460	Bharath	Pharmaceutical Technology-Concepts and applications	329.00	73
9789332528475	Bhardwaj	Biochemistry for Life Sciences	619.00	32
9788131768563	Bhardwaj	Biochemistry for Nurses	279.00	65
9788131765272	Bhasin	Pharmaceutical Physical Chemistry: Theory and Practices	489.00	73
9788131769621	Bhatnagar	English for Nurses	169.00	69
9789332577565	Billings	Structural Geology, 3e	519.00	56
9788177588842	Boyer	Modern Experimental Biochemistry, 3e	859.00	32
9789332519107	Brady	The Nature and Properties of Soils 14/e	1139.00	4
9789332555372	Campbell	Essential Biology with Physiology 5e	879.00	28
9788131715598	Campbell	Discovering Genomics, Proteomics and Bioinformatics 2/e	859.00	40
9789332573857	Campbell, ITLS	International Trauma Life Support for Emergency Care Providers, 8/e	789.00	66
9789332535190	Cappuccino	Microbiology: A Laboratory Manual, 10e	929.00	49

ISBN	Author	Title	Price	Page
9789332575745	Charles J. Krebs	Ecology: The Experimental Analysis of Distribution and Abundance, 6e	689.00	41
9789332536685	Chiras / Reganold	Natural Resource Conservation: Management for a Sustainable Future 10e	899.00	5
9789332525269	Clement	Sociology for Nurses 2e	499.00	69
9789332586802	Colbert	Anatomy, Physiology, and Disease: An Interactive Journey for Health Professions, 3/e	949.00	16
9789332555242	Critchfield	General Climatology 4e	479.00	56
9789332571662	Edward J. Tarbuck	Earth: An Introduction to Physical Geology, 11/e	939.00	56
9788131727409	Falconer	Introduction to Quantitative Genetics, 4e	759.00	40
9789332575912	Freeman	Biological Science, 5e	1029.00	21
9789332577459	Freeman	Evolutionary Analysis, 4e	869.00	23
9788131774700	Goel/Parashar	IPR, Biosafety and Bioethics	399.00	45
9788131726105	Hadley	Endocrinology	929.00	16
9781292081663	Hardin/ Bertonni/Kleins	Becker' World of the Cell, 8/e	1999.00	50
9789332550025	Hartmann / Kester / Davies / Geneve	Hartmann & Kester's Plant Propagation: Principles and Practices 8e	1099.00	7
9789332570344	Havlin / Tisdale / Nelson / Beaton	Soil Fertility and Fertilizers, 8/e	779.00	6
9789332551909	Hess / Tasa	McKnight's Physical Geography: A Landscape Appreciation 10e	1029.00	55
9789332518940	Jensen	Remote Sensing of the Environment: An Earth Resource Perspective 2e	1049.00	56
9789352864324	keller	Introduction to Environmental Geology, 5/e	1295.00	58
9788131711583	Khan	Elements of Immunology	989.00	44
9789332577480	Kleinsmith	Principles of Cancer Biology, 1e	399.00	24
9789332577466	Klug	Concepts of Genetics, 10e	799.00	36
9789332556966	Kohls / Uhl	Marketing of Agricultural Products 9e	629.00	8
9789332586093	Kormondy	Concepts of Ecology, Updated 4/e	549.00	43
9789332578562	Krogh	Biology: A Guide to the Natural World, 5e	929.00	25
9789332575738	Kump	The Earth System, 3/e	509.00	56
9788131769409	Lakshmi	Pharmaceutical Inorganic Chemistry	369.00	73
9789332517400	Lawrence	Henderson's Dictionary of Biology 5/e	559.00	28
9788131728604	Leach	Molecular Modelling: Principles and Applications, 2e	959.00	51



ISBN	Author	Title	Price	Page
9789332551817	Lutgens / Tarbuck / Tasa	Atmosphere: An Introduction to Meteorology 12e	929.00	56
9789332586864	Madigan	Brock Biology of Microorganisms, 14/e	1499.00	27
9788131773215	Malathi	Essentials of Molecular Biology	399.00	52
9788131797266	Mangathayaru	Pharmacognosy: An Indian Perspective	419.00	73
9788131775141	Mariappan	Biostatistics - An Introduction	419.00	34
9789332578548	Marieb	Essentials of Human Anatomy & Physiology, 10e	729.00	12
9789332570993	Marieb	Human Anatomy, 7/e	949.00	11
9789352864348	Marshak	Basic Methods of Structural Geology, 1e	599.00	56
9789332578579	Martini	Fundamentals of Anatomy & Physiology, 9e	1189.00	13
9788131717608	McDonald	Animal Nutrition 6/e	959.00	17
9789332573895	Michael D Johnson	Human Biology: Concepts and Current Issues, 7/e	769.00	26
9788131732168	Morris	Psychology for Nurses	299.00	69
9789332577473	Moyes	Principles of Animal Physiology, 2e	819.00	16
9789332556935	Moyle / Cech	Fishes: An Introduction to Ichthyology 5e	759.00	17
9788131773345	Nisha Clement	Nursing Ethics-Concepts, Trends and Practices	399.00	69
9788131775707	Nursing Research Society of India	Nursing Research and Statistics	419.00	69
9788131768877	Parvathi	Genetics For Nurses	309.00	69
9789332525276	Parvathi/ Sumitha/ Smitha	Microbiology for Nurses	419.00	69
9788131788394	Patidar	Communication and Nursing Education	369.00	69
9789332550421	Perkins	Mineralogy 3e	809.00	60
9789332571624	Peter J. Russell	iGenetics: A Molecular Approach, 3/e	769.00	37
9788177587432	Ratner	Nanotechnology: A Gentle Introduction to the Next Big Idea	569.00	40
9781292008653	Reece / Jackson	Campbell Biology, 10e	1999.00	28
9789332517295	Roger McFadden	Introducing Pharmacology 2e	429.00	73
9789332578555	Sanders	Genetic Analysis: An Integrated Approach, 1e	919.00	38
9789332577541	Silverthorn	Human Physiology, An Integrated Approach, 6e	1129.00	14
9789332536692	Smith	Elements of Ecology, 8e	989.00	43
9788131731444	Sriram / Yogeeswari	Medicinal Chemistry 2/e	679.00	73

ISBN	Author	Title	Price	Page
9789332555105	Strickberger	Genetics 3e	779.00	39
9788131773697	Sudha	Pharmaceutical Analysis	499.00	73
9788131773451	Sunita Lawrence	Midwifery and Obstetrical Nursing – Practical	259.00	69
9789332550049	Taylor / Field	Scientific Farm Animal Production 10e	709.00	17
9789332535060	Thieman	Introduction to Biotechnology, 3e	779.00	35
9789332575417	Tortora	Microbiology: An Introduction, 11e	1099.00	46
9789332550438	Trujillo / Thurman	Essentials of Oceanography 11/e	1099.00	59
9788131771099	Wasim Ahmad Faridi	Genetics and Genomics	729.00	39
9789332585478	Watson	Molecular Biology of the Gene, 7/e	849.00	51
9789332517387	Weyers	Practical Skills in Biomolecular Science	679.00	52
9789332550407	Winter	Principles of Igneous and Metamorphic Petrology 2e	899.00	60
9789332536678	Zar	Biostatistical Analysis, 5e	959.00	33



For sales queries, please contact...



Pearson

NORTH	Binit Shukla	9871105803	binit.shukla@pearson.com	Delhi & NCR
	Navdeep Singh Virdi	9818692884	navdeep.singh@pearson.com	Delhi & NCR
	Kamal Bisht	9871877866	kamal.bisht@pearson.com	Delhi & NCR
	Avinash Kumar Shukla	9718707999	avinash.kumar2@pearson.com	Delhi & NCR
	Sahil Kumar	8447920102	sahil.kumar@pearson.com	Delhi & NCR
	Pallav Jain	9654011114	pallav.jain@pearson.com	Delhi & NCR
	Ishaan Yadav	9999811082	ishaan.yadav@pearson.com	Delhi & NCR
	Utkarsh Srivastava	9654179679	utkarsh.srivastava@pearson.com	Delhi & NCR
	Sarvendra Singh	9871424307	Sarvendra.Singh@pearson.com	Punjab
	Dev Keshri	9810870795	dev.keshri@pearson.com	Madhya Pradesh - Indore
EAST	Santosh Kumar	9415517650	santosh.kumar2@pearson.com	Uttar Pradesh - Lucknow
	Tapas Kumar Behera	9830689800	tapaskumar.behera@pearson.com	Assam - Guwahati
	Alok Kumar	9934015180	alok.kumar@pearson.com	Bihar - Patna
	Tapan Kumar Saha	9830137194	tapan.saha@pearson.com	West Bengal - Kolkata
	Vishwajeet Banick	9831499052	vishwajeet.banick@pearson.com	West Bengal - Kolkata
	Ranjan Kumar Mishra	9437276051	ranjan.mishra@pearson.com	Odisha - Bhubaneswar
WEST	Ananda Kumar Mishra	8114793497	ananda.mishra@pearson.com	Odisha - Cuttack
	Dhiren Vakharia	9833320212	dhiren.vakharia@pearson.com	Maharashtra-Mumbai
	Gaurav Gagwani	9898813419	Gaurav.Gagwani@pearson.com	Gujarat-Ahmedabad
	Aju Mathai	9824403301	aju.mathai@pearson.com	Gujarat-Ahmedabad
	Dheeraj Gujrati	9890491116	dheeraj.gujrati@pearson.com	Pune
	Kedar Vinod Pise	9923505251	kedar.pise@pearson.com	Pune
SOUTH	Girish Saraf	9545389786	girish.saraf@pearson.com	Nagpur
	A. Ramakrishnan	9500028293	ramakrishnan.arumugam@pearson.com	Tamil Nadu-Chennai
	Jayaraj V.S.	9994070570	vs.jayaraj@pearson.com	Tamil Nadu-Chennai
	Robert Tim Wilton	9566918567	robert.wilton@pearson.com	Tamil Nadu-Chennai
	S. Gopinath	9655627617	s.gopinath@pearson.com	Coimbatore
	Natesa Deepan	8220015269	natesa.deepan@pearson.com	Coimbatore
	Santosh Thadakamadla	9959444413	t.santosh@pearson.com	Andhra Pradesh-Hyderabad
	Thummala Kiran	9177602565	thummala.kiran@pearson.com	Andhra Pradesh-Hyderabad
	Vuppanapalli J. Narayana	9603109934	jayaprakash.vuppanapalli@pearson.com	Vijayawada
	A Venu Kumar	9676771407	venu.kumar@pearson.com	Visakhapatnam
	Vishal Bajpai	9663526715	vishal.bajpai@pearson.com	Karnataka - Bengaluru
	Arun Kumar R	9538100777	arun.kumar1@pearson.com	Karnataka - Bengaluru
	Yatin Arora	9971046789	yatin.arora@pearson.com	Karnataka - Bengaluru
	Amal Raj Gautam	9620156976	amalraj.gautam@pearson.com	Karnataka - Bengaluru
	B Muneer	9847505010	b.muneer@pearson.com	Kerala
	Ashik Thomas	9745160027	ashik.thomas@pearson.com	Kerala



NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

NOTES

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There is no handwriting or other markings on the paper.

NOTES

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook paper. There are no margins, text, or other markings on the page.

NOTES

[illegible]

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.