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Agriculture
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

/uni25A0 NEW—Significantly expanded content, with 12 new chapters—Provides crop-specific information for 10 selected field crops and essential coverage of latest developments.

/uni25A0 Makes text suitable for use in preparing for the Crop Certification exams.

/uni25A0 Allows students to understand the distinct techniques and technology associated with production of each crop.

/uni25A0 NEW—Over 50 new figures and 40 new charts.

/uni25A0 Enhances the presentation and student comprehension of the text.

/uni25A0 Emphasis on the underlying science of crop production—Views the crop producer as a manager of resources.

/uni25A0 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.

/uni25A0 Coverage of latest trends impacting crop production—i.e., sustainable agriculture, organic farming, environmental safety consciousness, etc.

/uni25A0 Gives students an understanding of how crop production is evolving and arms them with information for solid decision making on the job.

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- Gives students an understanding of how crop production is evolving and arms them with information for solid decision making on the job.

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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
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—incorporating 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.

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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
  27. Post-Harvest Handling of Horticultural Products
The Nature and Properties of Soil, 14/e

Nyle C. Brady

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

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

Daniel D. Chiras  |  John P. Reganold

ISBN: 9789332536685

CONTENTS

1. Natural Resource Conservation and Management: 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

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

ABOUT THE BOOK

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

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.

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

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Biology
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

ISBN: 9789332570993

Human Anatomy, 7/e  
Elaine N Marieb  
Patricia Brady Wilhelm  
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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
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
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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.

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Jon Mallatt earned his Ph.D. in Anatomy from the University of Chicago. 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.
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.
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19. The Cardiovascular System: Blood Vessels
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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

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Essentials of Human Anatomy & Physiology, 10/e
Elaine N. Marieb

ISBN: 9789332578548

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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

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3. The Cellular Level of Organization
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8. The Appendicular Skeleton
9. Articulations
10. Muscle Tissue
11. The Muscular System
12. Neural Tissue
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
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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

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Claire E. Ober is an illustrator who works closely with Bill Ober.
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.
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
McDonald
ISBN: 9788131717608
Pages: 708

Fishes: An Introduction to Ichthyology, 5/e
Moyle / Cech
ISBN: 9789332556935
Pages: 744

Scientific Farm Animal Production, 10/e
Taylor / Field
ISBN: 9789332550049
Pages: 672
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
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
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
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.
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—brining 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
   - 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
   - Cell Structure and Function
     7. Inside the Cell
     8. Cell-Cell Interactions
     9. Cellular Respiration and Fermentation
    10. Photosynthesis
    11. The Cell Cycle
   - 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
   - Developmental Biology
     21. Principles of Development
   - Evolutionary Processes and Patterns
     22. An Introduction to Animal Development
     23. An Introduction to Plant Development
   - The Diversification of Life
     24. Phylogenies and the History of Life
     25. Evolution by Natural Selection
     26. Speciation
     27. Bacteria and Archaea
   - How Plants Work
     28. Phytogenies 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
   - How Animals Work
     36. Animal Form and Function
     37. 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.

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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.

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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 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.
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
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
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
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
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.
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)
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 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.

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.
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. 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 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

IV. Microbial Ecology and Environmental Microbiology
15. Functional and Ecological Diversity of Bacteria
16. Diversity of Archaea
17. Diversity of Microbial Eukarya

V. Pathogenicity and Immunology
18. Tools of the Microbial Ecologist
19. Microbial Ecosystems
20. Nutrient Cycles in Nature
21. Microbiology of the Built Environment
22. Microbial Symbioses

VI. Infectious Diseases and their Transmission
23. Microbial Interactions with Humans
24. Principles of Immunology and Host Defense
25. Immune Mechanisms
26. Molecular Immunology
27. Clinical Microbiology and Immunology

II. Metabolic and Microbial Diversity
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
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 groundbreaking 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

ISBN: 9789332585454

Biochemistry: Concepts and Connections
Dean R. Appling | Spencer J. Anthony-Cahill | Christopher K. Mathews

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

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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
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:

Also Available...

Introduction to Biochemistry and Metabolism

Anandhi
ISBN: 9788131774854
Pages: 416

Biochemistry: for Life Sciences

Bhardwaj
ISBN: 9789332528475
Pages: 576

Modern Experimental Biochemistry, 3/e

Boyer
ISBN: 9788177588842
Pages: 480
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
  - 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
2. Populations and Samples
3. Measures of Central Tendency
4. Measures of Variability and Dispersion
5. Probabilities
6. The Normal Distribution
7. One-Sample Hypotheses
8. Two-Sample Hypotheses
9. Paired-Sample Hypotheses
10. Multisample Hypotheses and the Analysis of Variance
11. Multiple Comparisons
12. Two-Factor Analysis of Variance
13. Data Transformations
14. Multiway Factorial Analysis of Variance
15. Nested (Hierarchical) Analysis of Variance
16. Multivariate Analysis of Variance
17. Simple Linear Regression
18. Comparing Simple Linear Regression Equations
19. Simple Linear Correlation
20. Multiple Regression and Correlation
21. Polynomial Regression
22. Testing for Goodness of Fit
23. Contingency Tables
24. Dichotomous Variables
25. Testing for Randomness
27. Circular Distributions: Hypothesis Testing
28. Answers to Exercises
29. Literature Cited
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.

Biostatistics: An Introduction

P. Mariappan

ISBN: 9788131775141

Biostatistics: An Introduction

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.
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

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

ISBN: 9789332577466

ABOUT THE BOOK

Concepts of Genetics, 10/e

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

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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. Extraneural 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
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

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

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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, 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).
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:**
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* 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.
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

ISBN: 9789332575745

Ecology: The Experimental Analysis of Distribution and Abundance, 6/e
Charles J. Krebs
656 | 2016

Discovering Genomics, Proteomics and Bioinformatics, 2/e
Campbell
ISBN: 9788131715598
Pages: 464

Introduction to Quantitative Genetics, 4/e
Falconer
ISBN: 9788131727409
Pages: 480

Nanotechnology: A Gentle Introduction to the Next Big Idea
Ratner
ISBN: 9788177587432
Pages: 280

ALSO AVAILABLE...
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.

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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 Equilibrium 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.
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) 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).
- 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).
- 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
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 pedagogical 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.
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. Allergenicity: 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)
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.
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.

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
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 knowledge 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 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
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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
Cappuccino
ISBN: 9789332535190
Pages: 576
ABOUT THE BOOK
Widely praised for its strong biochemistry coverage and clear, easy-to-follow explanations and figures, Becker’s World of the Cell provides a beautifully-illustrated, up-to-date introduction to cell biology concepts, processes, and applications. Informed by many years of classroom experience in the sophomore-level cell biology course, the dramatically-revised Ninth Edition introduces molecular genetics concepts earlier in the text and includes more extensive coverage of key techniques in each chapter. 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 and molecular biology.

FEATURES
- Reorganization of cell signaling, cell division, and cell cycle regulation materials, including moving the molecular genetics material to an earlier position, more tightly integrates these topics with coverage of many topics in the last sections of the text.
- Chapter on molecular techniques that focuses on the tools or the key technologies cell biologists use to analyze and manipulate DNA, genomes, RNA and proteins, and gene function.
- Twenty-six Key Technique boxes in every chapter are integrated throughout the text, demonstrating how cutting-edge technologies can be used to answer outstanding questions in Cell Biology.
- Twenty-four Human Connection boxes incorporate human examples and show the relevance of Cell Biology to human health and societal issues.
- Concept Check questions and Quantitative questions in every chapter.
- Content updates have been added throughout the book highlighting the most recent advances in the understanding of cell biology.

CONTENTS
1. A Preview of the Cell Biology
2. The Chemistry of the Cell
3. The Macromolecules of the Cell
4. Cells and Organelles
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
13. Cytoskeletal Systems
14. Cellular Movement: Motility and Contractility
15. Beyond the Cell: Cell Adhesion, Cell Junctions, and Extracellular Structures
16. The Structural Basis of Cellular Information: DNA, Chromosomes, and the Nucleus
17. DNA Replication, Repair, and Recombination
18. Gene Expression: I. The Genetic Code and Transcription
19. Gene Expression: II. Protein Synthesis and Sorting
20. The Regulation of Gene Expression
21. Molecular Biology Techniques for Cell Biology
22. Signal Transduction Mechanisms: I. Electrical and Synaptic Signaling in Neurons
23. Signal Transduction Mechanisms: II. Messengers and Receptors
24. The Cell Cycle and Mitosis
25. Sexual Reproduction, Meiosis, and Genetic Recombination
26. Cancer Cells
Molecular Biology of the Gene, 7/e

James D. Watson

Molecular Modelling: Principles and Applications, 2/e

Leach

ISBN: 9788131728604
Pages: 768

Tissue Engineering

Palsson

ISBN: 9789332571792
Pages: 432
**Practical Skills in Biomolecular Sciences, 4/e**

*Jonathan Weyers*

- **576** | **© 2014**

**ABOUT THE BOOK**

If you are a 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
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

ISBN: 9789332551909

McKnight's Physical Geography: A Landscape Appreciation, 10/e
Darrel Hess |
Dennis G. Tasa
624 |
2016
ABOUT THE BOOK
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  - Major photos paired with locator maps to enhance geographic literacy.
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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.
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.
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- 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
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 challenging oceanographic concepts.
- Key terms, noted in bold print, are defined when introduced and are included in the glossary.
- End-of-chapter questions and exercises help students self-check their understanding.
- Geoscience Animations icons throughout the text are provided to:
  - 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
- 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?”)
- Poplar “Students Sometimes Ask” feature answers

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**

Perkins
ISBN: 9789332550421
Pages: 453

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

John D. Winter

ISBN: 9789332550407

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.
PETROLOGY

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.

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:

Part II Metamorphic Petrology
18. Granitoid Rocks
19. Continental Alkaline Magmatism
20. Anorthosites

CONTENTS

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
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.
ABOUT THE BOOK
This text is the updated tenth edition of one of the most revered text for nursing foundations—Kozier & Erb’s Fundamentals of Nursing—a gold standard that helps students embark on their careers in nursing.

For years, this impeccable text set the foundation for nursing excellence with its clear and approachable writing style. The book prepare readers to become effective nurses with its balanced coverage of the key concepts of contemporary nursing, as well as the latest nursing evidence, standards, and competencies. The new QSEN competencies, incorporated in this edition, draw connections to actual nursing practice and help students develop their clinical-reasoning abilities and to learn and maintain safety and quality in their provision of nursing care. This edition also includes legal aspects of nursing in India; Standards of care; and code of ethics and code of professional conduct for nurses in India. Health care delivery, community nursing care and home care in the Indian scenario, First aid and Biomedical waste management have also been discussed in detail.

FEATURES

- QSEN Linkages: QSEN competencies addresses the gap between nursing education and practice
- Culturally Responsive Care: Highlights diversity and special considerations in nursing care
- Evidence-Based Practice: Focuses evidence-informed practice to highlight relevant research and its implications for nursing care
- Home Care Assessment: Focuses on educating the client, family, and community to recognize what is needed for care at home
- Men in Nursing: Includes increased information about men in nursing from a historical and current perspective
- Safety Alerts: Correlate to the Patient Safety Goals and identify other crucial safety issues.

Hallmark Pedagogy
- Nursing care plans
- Self-care alerts
- Clinical alerts
- Concept maps
- Drug capsule boxes
- Practice guidelines
- Chapter highlights
- Test your knowledge
- Clinical manifestation boxes
- Critical thinking checkpoints
- Applying critical thinking- questions
- Meeting the standards- end of unit activities

CONTENTS

UNIT 1 The Nature of Nursing
Chapter 1 Historical and Contemporary Nursing Practice
Chapter 2 Evidence-Based Practice and Research in Nursing
Chapter 3 Nursing Theories and Conceptual Frameworks
Chapter 4 Legal Aspects of Nursing
Chapter 5 Values, Ethics, and Advocacy

UNIT 2 Contemporary Health Care
Chapter 6 Health Care Delivery Systems
Chapter 7 Community Nursing and Care Continuity
Chapter 8 Home Care
Chapter 9 Electronic Health Records and Information Technology
UNIT 3 The Nursing Process
Chapter 10 Critical Thinking and Clinical Reasoning
Chapter 11 Assessing
Chapter 12 Diagnosing
Chapter 13 Planning
Chapter 14 Implementing and Evaluating
Chapter 15 Documenting and Reporting

UNIT 4 Health Beliefs and Practices
Chapter 16 Health Promotion
Chapter 17 Health, Wellness, and Illness
Chapter 18 Culturally Responsive Nursing Care
Chapter 19 Complementary and Alternative Healing Modalities

UNIT 5 Life Span Development
Chapter 20 Concepts of Growth and Development
Chapter 21 Promoting Health from Conception Through Adolescence
Chapter 22 Promoting Health in Young and Middle-Aged Adults
Chapter 23 Promoting Health in Older Adults
Chapter 24 Promoting Family Health

UNIT 6 Integral Aspects of Nursing
Chapter 25 Caring
Chapter 26 Communicating
Chapter 27 Teaching
Chapter 28 Leading, Managing, and Delegating

UNIT 7 Assessing Health
Chapter 29 Vital Signs
Chapter 30 Health Assessment

UNIT 8 Integral Components of Client Care
Chapter 31 Asepsis
Chapter 32 Safety and First Aid
Chapter 33 Hygiene
Chapter 34 Diagnostic Testing
Chapter 35 Medications
Chapter 36 Skin Integrity and Wound Care
Chapter 37 Perioperative Nursing

UNIT 9 Promoting Psychosocial Health
Chapter 38 Sensory Perception
Chapter 39 Self-Concept
Chapter 40 Sexuality
Chapter 41 Spirituality
Chapter 42 Stress and Coping
Chapter 43 Loss, Grieving, and Death

UNIT 10 Promoting Physiological Health
Chapter 44 Activity and Exercise
Chapter 45 Sleep
Chapter 46 Pain Management
Chapter 47 Nutrition
Chapter 48 Urinary Elimination
Chapter 49 Fecal Elimination
Chapter 50 Oxygenation
Chapter 51 Circulation
Chapter 52 Fluid, Electrolyte, and Acid–Base Balance

Appendix A Answers to Test Your Knowledge
Appendix B Review Questions
Glossary

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English for Nurses

Nitin Bhatnagar

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ABOUT THE BOOK

Basic Approach

This book addresses the need for nurses to communicate effectively in English. Combining the essentials of communication with language learning, it provides all the necessary skills for professionals in healthcare. English for Nurses puts equal emphasis on all the four aspects of learning the language—listening, speaking, reading and writing through a variety of exercises and assessment modules. It provides plenty of practice in functional grammar and also for pronunciation and fluency in speaking.

FEATURES

- Reading Comprehension: Objective and Subjective Questions
- Vocabulary and glossary
- Grammar exercises that are graded
- Functional grammar based on practical situations that a nurse faces.
- Common problems of pronunciation and speaking skills have been addressed
- Writing skills based on the needs of the nurses have been addressed

CONTENTS

1. Edith Cavell: And Bravely Fought the Nurse
2. The Story of a British Nurse in India (Margaret Ledger)
3. A doctor for all seasons: The story of Noshir H Antia (Kavita Nambsian)
4. Aarohi: Ascent in Healthcare
5. Communication in healthcare: The perspective of a Nurse
6. Private and Public Partnership in Healthcare (Bharathi Ghanshyam)
7. Managing Pain
8. The story of a British Nurse (Stress in Nursing, Pratibha P. Kane; from a journal)
9. The Quiet Soldiers of Compassion: Prakash and Mandakini Amte
10. The Story of a Caribbean Nurse
Appendix: Report Writing

ABOUT THE AUTHOR

Nitin Bhatnagar is Professor and Head, Institute of Applied Sciences and Humanities, GLA University, Mathura.
Biochemistry for Nurses

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 bimolecules
- 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)

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 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.
ABOUT THE BOOK
Basic Approach
Designed to facilitate and complement the training of a nurse by creating awareness of and interest in psychology, this textbook provides an introduction to key topics such as the biological basis of behavior, perception, learning, memory, communication, intelligence, and aptitude. This book is written in an easy-to-understand and a lucid style, and deals with concepts of motivation, conflicts and their resolution, personality, and life-span development. Separate chapters on attitude, group psychology, psychological assessment, and the role of a nurse have also been included. Several illustrations, figures, tables, and key terms have been provided in the chapters to aid understanding and recapitulation.

FEATURES
- The characteristics nurses need to develop to better care for their patients
- The need to form some sort of relationship with patients while remaining objective
- The future of the nursing profession in India
- Based on the latest syllabus by the Indian Nursing Council
- Review questions and multiple-choice questions are included at the end of each chapter

CONTENTS
1. Introduction
2. The Genetic and Biological Bases of Behavior
3. Sensory and Perceptual Processes
4. Learning
5. Memory
6. Thinking, Language, and Communication
7. Intelligence and Aptitude
8. Motivation and Emotion
9. Stress and Coping
10. Personality
11. Life-span Development
12. Mental Hygiene, Mental Health, and Positive Psychology
13. Psychological Disorders and Therapies
14. Attitudes
15. Group Psychology
ABOUT THE BOOK
Microbiology for Nurses approaches, in a systematic way, the pathogenic activities of a wide range of microorganisms and their indications on the human body. Designed to fully address the needs of nursing students taking up a curriculum on microbiology, the book conforms to the syllabus prescribed by the Indian Nursing Council. With ample review questions and multiple choice questions to enable easy recapitulation and vibrant color illustrations to appeal to the visual learner, this book presents the theoretical concepts of the subject from a professional nursing perspective.

FEATURES
■ Exhaustive coverage of asepsis, sterilization and disinfection
■ Focus on hospital safety measures and biomedical waste management
■ In-depth analysis of the scope of chemotherapy and the action of antibiotics
■ Concise and easy-to-follow presentation of techniques for collection and handling of specimens, immunization and vaccination
■ Ready-to-use online resources featuring laboratory experiments and true-or- false questions

CONTENTS
Unit 1: Introduction
Unit 2: General characteristics of microbes
Unit 3: Infection Control
Unit 4: Pathogenic organisms
Unit 5: Immunology

ABOUT THE AUTHOR(S)
Mrs. V. Deepa Parvathi is faculty, Department of Human Genetics, Sri Ramachandra University, Tamilnadu
Mrs. R. Sumitha is faculty, Department of Biomedical Sciences, Sri Ramachandra University, Tamilnadu
Mrs. Smitha. S is visiting Faculty, C. M. Managuli Arts &Science College Karnataka

ISBN: 9789332525276

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About the Book

Basic Approach

Genetics is a compulsory paper offered to undergraduate students of Nursing. Genetics for Nurses has been designed considering the syllabi requirements laid down by the Indian Nursing Council and the leading nursing colleges. The book has a variety of case studies and review questions to support the theoretical concepts and is a unique offering to the undergraduate students of nursing.

Features

- Exhaustive coverage of maternal and prenatal genetic influences on development of defects and diseases, and genetic testing in neonates and children
- Numerous self-explanatory figures
- Case studies pertaining to genetic disorders to help students diagnose the clinical condition

Contents

1. Introduction
2. Maternal, prenatal and genetic influences on development of defects and diseases
3. Genetic testing in the neonates and children
4. Genetic conditions of adolescents and adults
5. Services related to genetics

About the Author

V. Deepa Parvathi is a serial merit scholar in Microbiology and Genetics through her undergraduate and postgraduate career. She majored in Microbiology and was the topper in her university, graduating from the Chennai based SRM Arts and Science College. Her post-graduation major was Human Genetics in which she was at the top of the rolls at Sri Ramachandra University, Chennai securing for herself the gold medal for her discipline in 2006. She has several anthologies, technical and symposia papers to her credit, presented both solo and in collaboration. Presently, she is teaching at Sri Ramachandra University.

ISBN: 9788131768877

About the Book

In its pursuit to bring about an awakening among students of nursing about human social behavior, this second edition of Sociology for Nurses continues to build on sociological theories that are of relevance to the nursing community. Conforming to the syllabus prescribed by the Indian Nursing Council and catering to the needs of second year B. Sc Nursing students, this book provides jargon-free explanation of even the most difficult concepts to the student's benefit.

Features

- Core concepts exemplified with vivid illustrations and reinforced by rich pedagogy
- Emphasis on sociological concepts and their applications from the standpoint of the practicing nurse
- Pertinent definitions, insightful concept boxes and deft comparison tables

Contents

Introduction
1. Introduction to sociology
2. Sociology and nursing
3. Man, Society and environment
4. Primary concepts in sociology
5. Social process
6. Culture
7. Population
8. Social groups
9. Marriage and family
10. Rural communities in India
11. Urban communities in India
12. Social stratification
13. Social mobility
14. Race
15. Social system
16. Social organization
17. Social disorganization
18. Social problems
19. Social control
20. Social change

About the Author

I. Clement is Principal, VSS college of Nursing, Bangalore. He has been involved in teaching and research for 25 years. He has various peer-reviewed research publications to his credit.

ISBN: 9789332525269
ABOUT THE BOOK
Basic Approach
Genetics is a compulsory paper offered to undergraduate students of Nursing. Genetics for Nurses has been designed considering the syllabi requirements laid down by the Indian Nursing Council and the leading nursing colleges. The book has a variety of case studies and review questions to support the theoretical concepts and is an unique offering to the undergraduate students of nursing.

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- Exhaustive coverage of maternal and prenatal genetic influences on development of defects/ diseases, and genetic testing in neonates/ children
- Numerous self-explanatory figures
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ABOUT THE BOOK
Medical-Surgical Nursing: Clinical Reasoning in Patient Care, 6/e provides students with all of the practical knowledge and skills they need to care for adult patients—without overwhelming readers with diseases and disorders that are beyond the beginning nurse's scope of practice. Carefully selected content focuses on the most salient concepts that new nurses will need to know when they first enter practice: how to promote health, facilitate recovery from illness and injury, and provide support when coping with disability or loss.

Throughout the text, the authors focus on individualized holistic nursing care as the crucial element in learning and practicing nursing, and the readers are given the tools they need to develop their clinical reasoning ability so that they can make safe and effective decisions on the job. With its understandable language, visual approach, and consistent teaching and learning format, it's no surprise that students across the globe overwhelmingly report that they truly like reading this text.

FEATURES
- Clinical Competencies at the beginning of each chapter have been revised to clearly reflect QSEN competencies
- New chapters on Informatics and Evidence-Based Practice in Medical-Surgical Nursing, Perioperative Nursing and Nursing Care of Patients with Communicable Diseases
- Priorities of Care help the student prioritize care, particularly in acute situations
- Moving Knowledge into Action provide students with opportunities to reflect on and apply their learning to patient care situations
- Expected Outcomes appear after every nursing diagnosis to help the student identify the goal of planned nursing interventions
- Continuity of Care focuses on the nurse's responsibility for preparing the patient and caregivers for transitions of care from one healthcare setting to another or to the home

CONTENTS
UNIT 1 Dimensions of Medical-Surgical Nursing
Chapter 1 Medical-Surgical Nursing in the 21st Century
Chapter 2 Informatics and Evidence-Based Practice in Medical-Surgical Nursing
Chapter 3 Health and Illness Care of Adults

UNIT 2 Alterations in Patterns of Health
Chapter 4 Nursing Care of Patients Having Surgery
Chapter 5 Nursing Care of Patients Experiencing Loss, Grief, and Death
Chapter 6 Nursing Care of Patients with Problems of Substance Abuse
Chapter 7 Nursing Care of Patients Experiencing Disasters

UNIT 3 Pathophysiology and Patterns of Health
Chapter 8 Genetic Implications of Adult Health Nursing
Chapter 9 Nursing Care of Patients in Pain

Chapter 10 Nursing Care of Patients with Altered Fluid, Electrolyte, and Acid-Base Balance
Chapter 11 Nursing Care of Patients Experiencing Trauma and Shock
Chapter 12 Nursing Care of Patients with Infections
Chapter 13 Nursing Care of Patients with Altered Immunity
Chapter 14 Nursing Care of Patients with Cancer

UNIT 4 Responses to Altered Integumentary Structure and Function
Chapter 15 Assessing the Integumentary System
Chapter 16 Nursing Care of Patients with Integumentary Disorders
Chapter 17 Nursing Care of Patients with Burns

UNIT 5 Responses to Altered Endocrine Function
Chapter 18 Assessing the Endocrine System
Chapter 19 Nursing Care of Patients with Endocrine Disorders
Chapter 20 Nursing Care of Patients with Diabetes Mellitus

UNIT 6 Responses to Altered Gastrointestinal Function
Chapter 21 Assessing the Gastrointestinal System
Chapter 22 Nursing Care of Patients with Nutritional Disorders
Chapter 23 Nursing Care of Patients with Upper Gastrointestinal Disorders
Chapter 24 Nursing Care of Patients with Bowel Disorders
Chapter 25 Nursing Care of Patients with Gallbladder, Liver, and Pancreatic Disorders

UNIT 7 Responses to Altered Urinary Elimination
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Chapter 27 Nursing Care of Patients with Urinary Tract Disorders
Chapter 28 Nursing Care of Patients with Kidney Disorders

UNIT 8 Responses to Altered Cardiovascular Function
Chapter 29 Assessing the Cardiovascular and Lymphatic Systems
Chapter 30 Nursing Care of Patients with Coronary Heart Disease
Chapter 31 Nursing Care of Patients with Cardiac Disorders
Chapter 32 Nursing Care of Patients with Vascular and Lymphatic Disorders
Chapter 33 Nursing Care of Patients with Hematologic Disorders

UNIT 9 Responses to Altered Respiratory Function
Chapter 34 Assessing the Respiratory System
Chapter 35 Nursing Care of Patients with Upper Respiratory Disorders
Chapter 36 Nursing Care of Patients with Ventilation Disorders
Chapter 37 Nursing Care of Patients with Gas Exchange Disorders

UNIT 10 Responses to Altered Musculoskeletal Function
Chapter 38 Assessing the Musculoskeletal System
Chapter 39 Nursing Care of Patients with Musculoskeletal Trauma
Chapter 40 Nursing Care of Patients with Musculoskeletal Disorders

UNIT 11 Responses to Altered Neurologic Function
Chapter 41 Assessing the Nervous System
Chapter 42 Nursing Care of Patients with Intracranial Disorders
Chapter 43 Nursing Care of Patients with Spinal Cord Disorders and CNS Infections
Chapter 44 Nursing Care of Patients with Neurologic Disorders

UNIT 12 Responses to Altered Sensory Function
Chapter 45 Assessing the Eye and Ear
Chapter 46 Nursing Care of Patients with Eye and Ear Disorders

UNIT 13 Responses to Altered Reproductive Function
Chapter 47 Assessing the Male and Female Reproductive Systems
Chapter 48 Nursing Care of Men with Reproductive System and Breast Disorders
Chapter 49 Nursing Care of Women with Reproductive System and Breast Disorders
Chapter 50 Nursing Care of Patients with Sexually Transmitted Infections Additional Chapters
Chapter 51 Perioperative Nursing
Chapter 52 Nursing Care of Patients with Communicable Diseases

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ABOUT THE BOOK
Basic Approach
Based on the latest syllabus of the Indian Nursing Council, Communication and Nursing Education is written primarily for students pursuing B.Sc. in nursing. It covers a wide range of topics such as curriculum development, classroom management, teaching-learning process and evaluation methods for didactic and clinical settings. While there is an entire chapter devoted to the in-service education, issues like interpersonal relationships, human relationships and communication are also comprehensively discussed. The text is supplemented with the most up-to-date teaching and learning techniques and includes a large number of examples and flow charts to facilitate an easy understanding of the key concepts.

CONTENTS
1. Review of communication process
2. Interpersonal relations
3. Human relations
4. Introduction to education
5. Teaching learning process
6. Classroom management
7. Educational media
8. Microteaching
9. Evaluation
10. Evaluation tools
11. Curriculum development
12. Information, education and communication for health
13. Guidance and Counseling
14. In-service education
15. Nursing education programs

ABOUT THE AUTHOR
Mr. Anurag Bhai Patidar is an experienced Faculty of Nursing Sciences. Presently he is working as Lecturer with College of Nursing, Dayanand Medical College and Hospital, Ludhiana. He is top ranked M. Sc (N) from AIIMS, New Delhi and Ph. D in nursing scholar at INC consortium in collaboration with Rajiv Gandhi University of Health Sciences, Bangalore.
ABOUT THE BOOK
Nursing Research and Statistics provides a clear understanding of the principles and processes of nursing research, which is an essential subject for nursing students. This is a comprehensive text, written by eminent members of the Nursing Research Society of India (NRSI), that also looks into the methods of data collection, its analysis and presentation. Based on the Indian Nursing Council syllabus, this textbook is specially designed to meet the needs of B.Sc. students of nursing.

FEATURES
- Student-friendly
- Original content written by experienced members of NRSI
- Covers 'Fundamentals of Statistics' in a separate chapter
- Covers both Qualitative and Quantitative studies in Sampling
- Based on INC syllabus
- Foreword by Prof. Reena Bose (Former President of NRSI and Principal of Sister Florence College of Nursing)

CONTENTS
1. Introduction to Nursing Research
2. Research Process
3. Research Problem
4. Review of literature
5. Theoretical and Conceptual Framework
6. Ethics in Research
7. Quantitative and Qualitative Research Approaches and Designs
8. Population, Sampling and Data Collection Methods in Qualitative Research
10. Development of Research Tool
11. Data Analysis and Interpretation
12. Critique of Nursing Research Studies
13. Communication of Research Results-Oral and Written
14. Research Utilization and Evidence-based Nursing Practice
15. Fundamentals of Statistics
ABOUT THE BOOK
Basic Approach
The Midwifery and Obstetric Nursing course is taught in two parts for undergraduate students of nursing: part 1 is exclusively devoted to theory and part 2 deals with the practical. Although many textbooks address the theory portion, the practical part is rarely covered in depth. This book fills a gap. The book has 41 experiments and is enough to cater to the requirements of the syllabi laid down by Indian Nursing Council and the various autonomous colleges; it includes 150 diagrams and covers all the latest procedures and technologies used in midwifery and obstetrics.

CONTENTS
1. Preconception Counseling
2. Prenatal Assessment and Care
3. Intrapartum Assessment and Care
4. Postpartum Assessment
5. Assessment of Newborn
6. Assessment in Operative Procedures

ABOUT THE AUTHOR
Sunita Lawrence is Principal, College of Nursing, Bhopal, and Editor-In-Chief of the Indian Journal of Holistic Nursing and Trends in Nursing Administration and Education. Previously, she was Assistant Director and Head of Department of Nursing and Health Sciences in Madhya Pradesh Bhoj (Open) University, Bhopal.
ABOUT THE BOOK

Basic Approach

This book on Nursing Ethics is meant for the entire nursing community and provides the ethical guidelines for students, teachers, practicing nurses in clinics, managing nurses and those doing researches. The book helps them to understand the concepts in a very simple and lucid manner irrespective of their specialized areas like emergency department, intensive care unit, operation theater, etc.

FEATURES

- Complete and exclusive coverage of ethical practices in nursing
- Exhaustive coverage of nursing ethics in super specialty areas
- Separate chapters on ethics in clinical specialties areas
- Important definitions are listed at the beginning of every chapter.
- Glossary to guide the students with the difficult terms

CONTENTS

1. Introduction to Ethics
2. Principles of Nursing Ethics
3. Professional Regulations in Ethics
4. Ethics Issues in Nursing
5. Special Ethical Issues in Nursing

ABOUT THE AUTHOR

Nisha Clement is Vice Principal, VSS College of Nursing, Bangalore.
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