

About Pearson

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

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

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

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

BRIEF CONTENTS

» Nursing	1.1-1.38
» Pharmacy.....	2.1-2.64



Nursing

CONTENTS

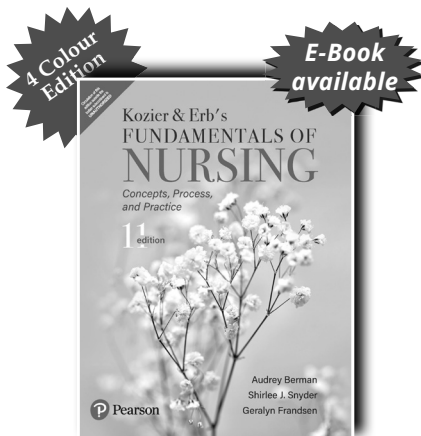
NURSING

» Nursing Foundations.....	1.1
» English.....	1.4
» Microbiology	1.5
» Medical Surgical Nursing.....	1.14
» Pharmacology.....	1.18
» Genetics	1.20
» Nursing Research and Statistics.....	1.24
» Emergency and Medical Care.....	1.30
» Sociology	1.31
» Computer Fundamentals.....	1.32
» Biochemistry.....	1.34
» Psychology.....	1.35
» Communication and Nursing Education.....	1.36

Kozier and Erb's -Fundamentals of Nursing, 11/e

 Audrey Berman | Shirlee J. Snyder | GERALYN FRANDSEN

 1572 | © 2021



ISBN: 9789353949273

ABOUT THE BOOK

Pearson introduces the 11th edition of one of its most revered texts 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 prepares 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 book also includes legal aspects of nursing in India; INC 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 have also been discussed in detail.

FEATURES

- **What's New**—A dedicated chapter on hospital admission and discharge. A detailed coverage on hygiene, loss, grieving and death
- **Updated!** Over 445-chapter review questions based on frequently asked questions in university examinations
- **QSEN Linkages**—QSEN competencies addresses the gap between nursing education and practice
- **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
- **Home Care Considerations**—focuses on teaching the client and caregiver the proper care at home
- **Safety Alerts**—correlates to the Patient Safety Goals and identify other crucial safety issues.
- **Clinical reasoning**—cognitive processes a nurse utilizes to gather and analyze client data, evaluate the relevance of the information, and implement nursing interventions to improve the client's well-being
- **Interprofessional practice**—identifies and reinforces to the student that other members of the health care team may also be performing the specified skill
- **Men in nursing**—this edition has increased information about men in nursing from a historical and current perspective in Chapter 1

CONTENTS

UNIT 1 The Nature of Nursing

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

UNIT 2 Contemporary Health Care

6. Health Care Delivery Systems
7. Community Nursing and Care Continuity
8. Home Care
9. Electronic Health Records and Information Technology

UNIT 3 The Nursing Process

10. Critical Thinking and Clinical Reasoning
11. Assessing
12. Diagnosing
13. Planning
14. Implementing and Evaluating
15. Documenting and Reporting

UNIT 4 Health Beliefs and Practices

16. Health Promotion
17. Health, Wellness, and Illness
18. Culturally Responsive Nursing Care
19. Complementary and Alternative Healing Modalities



UNIT 5 Life Span Development

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

UNIT 6 Integral Aspects of Nursing

- 25. Caring
- 26. Communicating
- 27. Teaching
- 28. Leading, Managing, and Delegating

UNIT 7 Assessing Health

- 29. Vital Signs
- 30. Health Assessment

UNIT 8 Integral Components of Client Care


- 31. Asepsis
- 32. Safety and First Aid
- 33. Hygiene

- 34. Diagnostic Testing
- 35. Medications
- 36. Skin Integrity and Wound Care
- 37. Perioperative Nursing

UNIT 9 Promoting Psychosocial Health

- 38. Sensory Perception
- 39. Self-Concept
- 40. Sexuality
- 41. Spirituality
- 42. Stress and Coping
- 43. Loss, Grieving, and Death

UNIT 10 Promoting Physiological Health

- 44. Activity and Exercise
 - 45. Sleep
 - 46. Pain Management
 - 47. Nutrition
 - 48. Urinary Elimination
 - 49. Fecal Elimination
 - 50. Oxygenation
 - 51. Circulation
 - 52. Fluid, Electrolyte, and Acid-Base Balance
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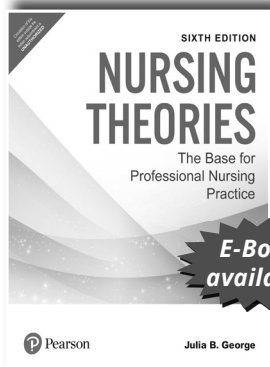
ABOUT THE AUTHOR(S)

Audrey Berman, PhD, RN - A San Francisco Bay Area native, Audrey Berman received her BSN from the University of California-San Francisco and later returned to that campus to obtain her MS in physiological nursing and her PhD in nursing.


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Nursing Theories : The Base for Professional Nursing Practice, 6/e



ISBN: 9789353436520

 **Julia B. George**

 **704** |  **2019**

ABOUT THE BOOK

Nursing Theories: The Base for Professional Nursing Practice, Sixth Edition, is designed to help nurses apply concepts and theories to practice. This useful resource considers the ideas of well-known nursing theorists and relates the work of each to the clinical nursing practice. Chapters are organized to relate the theorist's work to the nursing metaparadigm, clinical nursing practice, characteristics of a theory, and strengths and limitations of the theory.

FEATURES

- **An emphasis on the use of nursing theory in clinical practice**—applies theoretical content to every day practice making the text more interactive and practical for students.
- **Chapter on interdisciplinary practice**—demonstrates to students how nursing theory is related to widely used collaborative practice models.
- **Published examples of theory strategies**—help students visualize how theoretical strategies are developed and implemented.
- **Strengths and weaknesses are identified for each model/theory**—teaches students how to critically analyze nursing theories.
- **The application of abstract models and theories to nursing practice situations**—clarifies complex content that is often difficult to conceptualize.
- **International contingent of theorists**—reflects the diverse global aspects of nursing practice.

CONTENTS

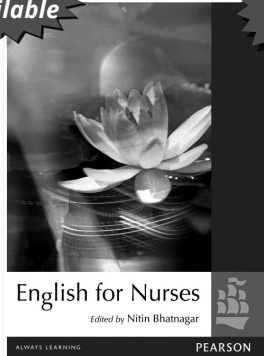
1. An Introduction to Nursing Theory
2. Nursing Theory and Clinical Practice
3. Environmental Model: Florence Nightingale
4. Interpersonal Relations in Nursing: Hildegard E. Peplau
5. Definition and Components of Nursing: Virginia Henderson
6. Self-Care Deficit Nursing Theory: Dorothea Elizabeth Orem
7. Behavioral System Model: Dorothy E. Johnson
8. Nursing Process Discipline: Ida Jean Orlando
9. Other Theories from the 1950s and 1960s
10. The Conservation Principles: A Model For Health: Myra Estrin Levine
11. Conceptual System and Theory of Goal Attainment: Imogene M. King
12. Science of Unitary Human Beings: Martha E. Rogers
13. The Roy Adaptation Model: Sister Callista Roy
14. The Neuman Systems Model: Betty Neuman
15. Other Theories from the 1970s
16. Theory of Culture Care Diversity and Universality: Madeleine M. Leininger
17. Health as Expanding Consciousness: Margaret A. Newman
18. Theory of Transpersonal Caring: Jean Watson
19. Human Becoming School of Thought: Rosemarie Rizzo Parse
20. The Modeling and Role-Modeling Theory: Helen Lorraine (Cook) Erickson, Evelyn M. Tomlin, and Mary Ann P. Swain
21. Health Promotion Model: Nola J. Pender
22. Philosophy of Caring and Expert Nursing Practice: Patricia Benner
23. Other Theories of the 1980s
24. Other Nursing Theories from the 1990s

ABOUT THE AUTHOR

Julia B. George, California State University, Fullerton

E-Book
available

POD



ISBN: 9788131769621

English for Nurses



Nitin Bhatnagar



128 | © 2012

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 Nambian)
 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.

Microbiology with Diseases by Body System, 4/e

 Robert W. Bauman

 944 | © 2017

ABOUT THE BOOK

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

FEATURES

- **NEW! Numbered Learning Outcomes**, found throughout the book, are used to tag Test Bank questions and all Mastering assets.
- **NEW! Tell Me Why critical-thinking questions** end each section in the text and strengthen the pedagogy and organization of each chapter, consistently providing stop-and-think opportunities for students as they read.
- **Micro in the Clinic** features hook students at the beginning of the chapter and keep them curious and engaged throughout the chapter-closing "Micro in the Clinic Follow-up."
- **Clinical and Emerging Disease Case Studies** ask students to apply what they have learned to clinical scenarios. Emerging Disease Case studies now include Critical Thinking questions to spark discussion.
- **State-of-the-Science currency**, found in Chapter 3 (Cell Structure and Function) and the immunology chapters (Chapters 15—18) de-emphasize outdated terms, and focus on the three domains of living organisms. This reflects the most current understanding of the rapidly evolving field of microbiology.
- **Student Support** includes Figure Legend and "Tell Me Why" Questions, TEM/SEM Designations, and Pronunciations and Etymology Guides that appear throughout the chapters. These resources strengthen the pedagogy and organization of each chapter by consistently providing stop and think opportunities for students as they read.
- **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. They may also complete concept maps in the Mastering Microbiology Study Area.
- **Updates in every chapter** reflect the latest in microbiology research and technology.

CONTENTS

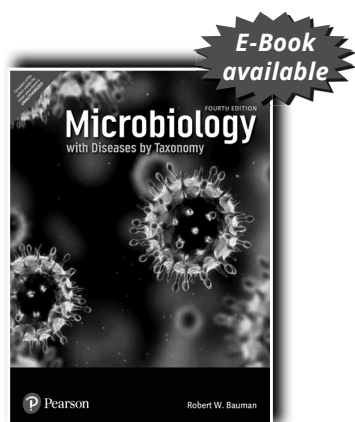
- | | |
|---|---|
| 1. A Brief History of Microbiology | 10. Characterizing and Classifying Prokaryotes |
| 2. Cell Structure and Function | 11. Characterizing and Classifying Eukaryotes |
| 3. Microscopy, Staining, and Classification | 12. Characterizing and Classifying Viruses, Viroids, and Prions |
| 4. Microbial Metabolism | 13. Infection, Infectious Diseases, and Epidemiology |
| 5. Microbial Nutrition and Growth | 14. Innate Immunity |
| 6. Microbial Genetics | 15. Adaptive Immunity |
| 7. Recombinant DNA Technology | 16. Immunization and Immune Testing |
| 8. Controlling Microbial Growth in the Environment | 17. AIDS and Other Immune Disorders |
| 9. Controlling Microbial Growth in the Body:
Antimicrobial Drugs | 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 AUTHOR

ROBERT W. BAUMAN is a professor of biology and past chairman of the Department of Biological Sciences at Amarillo College in Amarillo, Texas. He has taught microbiology, human anatomy and physiology, and botany for over thirty years.



ISBN: 9789332587274

Microbiology with Diseases by Taxonomy, 4/e

 **Robert W. Bauman**

 **900** | © **2017**

ABOUT THE BOOK

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

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

FEATURES

■ Organization and Currency

- The taxonomic organization of the disease chapters (Chapters 19—25) presents microbial diseases by type of pathogenic microbe, helping students recognize shared characteristics among categories of microbes.
- Chapter 3 (Cell Structure and Function) de-emphasizes the term “prokaryote” (a term that is based on an outdated perception of taxonomy and is thus misleading to students) and instead emphasizes the three domains of living organisms, matching the latest taxonomic research. This state-of-the-science organization sets this book apart from all other allied health microbiology books.
- The immunology chapters (Chapters 15—18), which have been and continue to be reviewed in-depth by immunology specialists, reflect the most current understanding of this rapidly-evolving field of any microbiology book available.

■ Student Interest Features

- **Microbe-at-a-Glance boxes** showcase representative microbes in each of the disease chapters. They feature an illustration of a microbe accompanied by very brief summaries of taxonomy, morphology, virulence factors, diseases caused, and treatment/prevention. These “snapshots” also appear as flashcards on the book's website, giving students extra “on-the-go” practice and review opportunities.
- **Beneficial Microbe boxes** emphasize the practical or benevolent nature and uses of microbes and help students overcome the common misconception that all microbes cause disease.
- **Clinical Case Study and Emerging Disease Case Study boxes** are written in an engaging narrative voice and feature a patient's experience with microbial diseases and follow-up critical thinking questions for students.
- **Highlight boxes** appear throughout the text and focus on interesting topics in microbiology; e.g., what causes that “fishy” smell in fish markets, what allows some organisms to glow in the dark, how gold-mining microbes are used, and which cutting-edge molecular techniques are used in microbiology.

■ Visually Superior Art Program

- Half-illustration/half-micrograph 3D cellular art sets a new standard for teaching cellular structure.
- Superior text-art integration breaks complex processes into smaller, more manageable pieces for students.
- Colors and icons are used consistently throughout the text to make it easier for students to recognize structures and processes from chapter to chapter.

■ Student Text Resources

- Figure Legend Questions encourage critical thinking.
- Critical Thinking Questions appear throughout the chapters and in the EOC section.
- Answers to all end-of-chapter review questions (except Short Answers) are at the back of the book; answers to Short Answer questions are in the Instructor's Manual. The answer section and appendices in this edition are tabbed for easy reference.
- TEM/SEM Designations, a feature regularly requested by instructors, appear in all micrographs and many illustrations.
- Pronunciations and Etymology Guides help students with pronouncing and remembering vocabulary.
- Concept Mapping exercises appear in the end-of-chapter material, guiding students to create their own concept maps from a list of key terms focused around an important chapter topic.

CONTENTS

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

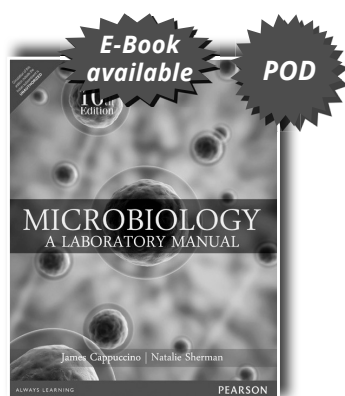
ABOUT THE AUTHOR

ROBERT W. BAUMAN is a professor of biology and past chairman of the Department of Biological Sciences at Amarillo College in Amarillo, Texas. He has taught microbiology, human anatomy and physiology, and botany for over thirty years.

Microbiology: A Laboratory Manual, 10/e

 James G. Cappuccino | Natalie Sherman

 576 | © 2014



ISBN: 9789332535190

ABOUT THE BOOK

Versatile, comprehensive, and clearly written, this competitively priced laboratory manual can be used with any undergraduate microbiology text-and now features brief clinical applications for each experiment, MasteringMicrobiology@quizzes that correspond to each experiment, and a new experiment on hand washing. Microbiology: A Laboratory Manual is known for its thorough coverage, descriptive and straightforward procedures, and minimal equipment requirements. A broad range of experiments helps to convey basic principles and techniques. Each experiment includes an overview, an in-depth discussion of the principle involved,

easy-to-follow procedures, and lab reports with review and critical thinking questions. Ample introductory material and laboratory safety instructions are provided.

FEATURES

- Comprehensive coverage of the core microbiology topics includes experiments in the areas of genetics, immunology, and biotechnology.
- A wide range of experiments progressing from simple to complex enable instructors to tailor their laboratory classes to the topics they wish to cover.
- Experiments use the most common and affordable laboratory materials, designed to accommodate any lab.
- Over 90 photographs in full color and numerous illustrations appear directly alongside the experiments, helping students visualize techniques and expected results.
- Spiral binding makes student-use easier and minimizes space on a lab bench.
- A detailed introductory section on basic lab techniques and safety thoroughly prepares students for lab work during the semester.
- “Caution” icons alert users to experiments that pose a potential risk.
- Six appendices cover the topics of Scientific Notification, Methods for Preparation of Dilutions, Microbiological Media, Biochemical Test Reagents, Staining Reagents, and Experimental Microorganisms.
- A Guide to Serial Dilutions is printed on the inside back cover for students’ quick reference in completing exercises.
- Art demonstrating lab procedures appears consistently in a special box design that distinguishes it from other art, and catches the student’s eye.
- A bold and modern four-color design adds distinction to each individual element, and allows for easier navigation within each experiment.

CONTENTS

Part 1: Basic Laboratory Techniques for Isolation, Cultivation, and Cultural Characterization of Microorganisms

1. Effectiveness of Hand Washing
2. Culture Transfer Techniques
3. Techniques for Isolation of Pure Cultures
4. Cultural Characteristics of Microorganisms

Part 2: Microscopy

5. Microscopic Examination of Stained Cell Preparations
6. Microscopic Examination of Living Microorganisms Using a Hanging-Drop Preparation or a Wet Mount
7. The Microscopic Measurement of Microorganisms

Part 3: Bacterial Staining

8. Preparation of Bacterial Smears
9. Simple Staining
10. Negative Staining
11. Gram Stain
12. Acid-Fast Stain
13. Differential Staining for Visualization of Bacterial Cell Structures

Part 4: Cultivation of Microorganisms: Nutritional and Physical Requirements, and Enumeration of Microbial Populations

14. Nutritional Requirements: Media for the Routine Cultivation of Bacteria

- 15. Use of Differential, Selective, and Enriched Media
- 16. Physical Factors: Temperature
- 17. Physical Factors: pH of the Extracellular Environment
- 18. Physical Factors: Atmospheric Oxygen Requirements
- 19. Techniques for the Cultivation of Anaerobic Microorganisms
- 20. Serial Dilution - Agar Plate Procedure to Quantitate Viable Cells
- 21. The Bacterial Growth Curve

Part 5: Biochemical Activities of Microorganisms

- 22. Extracellular Enzymatic Activities of Microorganisms
- 23. Carbohydrate Fermentation
- 24. Triple Sugar-Iron Agar Test
- 25. IMViC Test
- 26. Hydrogen Sulfide Test
- 27. Urease Test
- 28. Litmus Milk Reactions
- 29. Nitrate Reduction Test
- 30. Catalase Test
- 31. Oxidase Test
- 32. Utilization of Amino Acids
- 33. Genus Identification of Unknown Bacterial Cultures

Part 6: The Protozoa

- 34. Free-Living Protozoa
- 35. Parasitic Protozoa

Part 7: The Fungi

- 36. Cultivation and Morphology of Molds
- 37. Yeast Morphology, Cultural Characteristics, and Reproduction
- 38. Identification of Unknown Fungi

Part 8: The Viruses

- 39. Cultivation and Enumeration of Bacteriophages
- 40. Isolation of Coliphages from Raw Sewage

Part 9: Physical and Chemical Agents for the Control of Microbial Growth

- 41. Physical Agents of Control: Moist Heat
- 42. Physical Agents of Control: Environmental Osmotic Pressure
- 43. Physical Agents of Control: Electromagnetic Radiations
- 44. Chemical Agents of Control: Chemotherapeutic Agents
- 45. Determination of Penicillin Activity in the Presence and Absence of Penicillinase
- 46. Chemical Agents of Control: Disinfectants and Antiseptics

Part 10: Microbiology of Food

- 47. Microbiological Analysis of Food Products: Bacterial Count
- 48. Wine Production

Part 11: Microbiology of Water

- 49. Standard Qualitative Analysis of Water
- 50. Quantitative Analysis of Water: Membrane Filter Method

Part 12: Microbiology of Soil

- 51. Microbial Populations in Soil: Enumeration
- 52. Isolation of Antibiotic-Producing Microorganisms and Determination of Antimicrobial Spectrum of Isolates
- 53. Isolation of Pseudomonas Species by Means of the Enrichment Culture Technique

Part 13: Bacterial Genetics

- 54. Enzyme Induction
- 55. Bacterial Conjugation
- 56. Isolation of a Streptomycin-Resistant Mutant
- 57. The Ames Test: A Bacterial Test System for Chemical Carcinogenicity

Part 14: Biotechnology

- 58. Bacterial Transformation
- 59. Isolation of Bacterial Plasmids
- 60. Restriction Analysis and Electrophoretic Separation of Bacteriophage Lambda DNA

Part 15: Medical Microbiology

- 61. Microbial Flora of the Mouth: Determination of Susceptibility to Dental Caries
- 62. Normal Microbial Flora of the Throat and Skin
- 63. Identification of Human Staphylococcal Pathogens
- 64. Identification of Human Streptococcal Pathogens
- 65. Identification of Streptococcus pneumoniae
- 66. Identification of Enteric Microorganisms Using Computer-Assisted Multitest Microsystems
- 67. Isolation and Presumptive Identification of Campylobacter
- 68. Microbiological Analysis of Urine Specimens
- 69. Microbiological Analysis of Blood Specimens
- 70. Species Identification of Unknown Bacterial Cultures

Part 16: Immunology

- 71. Precipitin Reaction: The Ring Test
- 72. Agglutination Reaction: The Febrile Antibody
- 73. Immunofluorescence
- 74. Enzyme-Linked Immunoabsorbent Assay
- 75. Agglutination Reaction: Mono-Test for Infectious Mononucleosis
- 76. Sexually Transmitted Diseases: Rapid Immunodiagnostic Procedures

ABOUT THE AUTHOR(S)

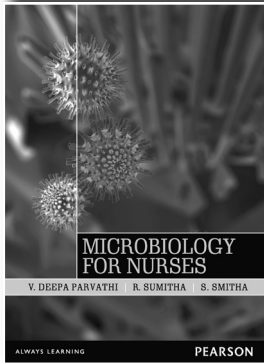
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Microbiology for Nurses

 **V. Deepa Parvathi | R. Sumitha | Smitha. S**

 **408 | © 2014**



ISBN: 9789332525276

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

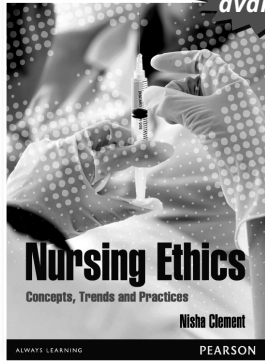
1. Introduction
2. General characteristics of microbes
3. Infection Control
4. Pathogenic organisms
5. Immunology

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Mrs. Smitha. S is visiting Faculty, C. M. Managuli Arts &Science College Karnataka



E-Book
available

Nursing Ethics: Concepts, Trends and Practices

 **Nisha Clement**

 **424** | © **2012**

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.

ISBN: 9788131773345

FEATURES

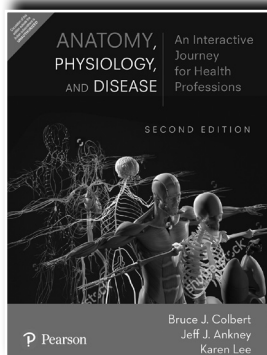
- Complete and exclusive coverage of ethical practices in nursing
- Exhaustive coverage of nursing ethics in super specialty areas
- Separate chapters on ethics in clinical specialties areas
- Important definitions are listed at the beginning of every chapter.
- Glossary to guide the students with the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

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ISBN: 9789332586802

Anatomy, Physiology, and Disease: An Interactive Journey for Health Professions, 3/e

 **Bruce J. Colbert | Jeff J. Ankney | Karen Lee**

 **896 | © 2017**

ABOUT THE BOOK

For all combined courses covering anatomy, physiology, and pathology in allied health programs, four year degree programs, military healthcare training centers, and other programs for standard A&P I and II courses and as an advanced high school courses.

This engaging, conversational book introduces all the anatomy, physiology, and pathology concepts that students must master to succeed in the health professions. It's designed to promote true understanding, not mere memorization, and to help students make the lasting connections they need to thrive as practitioners.

Throughout, well-placed "Pathology Connections" sections tightly link A&P concepts to pathologic processes. Analogies help students compare the human body to objects and processes they already understand, and illustrations and visual features support the visual learning style many of them prefer.

FEATURES

Hallmark Features

- Enjoyable to read, and linked to students' everyday lives. Takes a more personal approach that engages students by using real-world analogies and humor wherever appropriate, and encourages mastery rather than mere memorization.
- Integrates diverse concepts and pathologies through realistic case studies. Presents two running case studies: one of a patient with diabetes, and the other of a patient with a spinal cord injury. Throughout the text, these case studies integrate key concepts, demonstrate multi-system effects, understand the patient's progression; and encourage students to use critical thinking to make clinical connections.
- Introduces students to key body system diagnostic tests. Provides a dedicated chapter on body system diagnostic tests at the end of the book.
- Gives students rich reference resources they can rely upon for years. Contains appendices with more information about medical terminology, clinical abbreviations, "Do Not Use" lists, infectious diseases and related pathogens, laboratory reference values, multi-system effects, vitamins and minerals, and both standard and transmission-based precautions.


EXCELLENT PEDAGOGY

Pathology Connections
Applied Sciences boxes
Special boxed Learning Hints
"Test Your Knowledge" questions
Study Success Companion

Clinical Applications boxes
End-of-chapter "Quick Trip" review sessions
"That's Awesome" Amazing Body Facts
Pharmacology Corner
Medical terminology, word roots, suffixes, prefixes, and
"see-and-say" pronunciation in the margins

CONTENTS

1. Anatomy, Physiology and Disease: Learning the Language
2. The Human Body: Reading the Map
3. Biochemistry: The Ingredients of Life
4. The Cells: The Raw Materials and Building Blocks
5. Tissues and Systems: The Inside Story
6. The Skeletal System: The Framework
7. The Muscular System: Movement for the Journey
8. The Integumentary System: The Protective Covering
9. The Nervous System: The Body's Control Center
10. The Endocrine System: The Body's Other Control Center
11. The Senses: The Sights and Sounds
12. The Cardiovascular System: Transport and Supply
13. The Respiratory System: It's a Gas

- 
14. The Lymphatic and Immune Systems: Your Defense Systems
 15. The Gastrointestinal System: Fuel for the Trip
 16. The Urinary System: Filtration and Fluid Balance

17. The Reproductive System: Replacement and Repair
18. Basic Diagnostic Tests: Assessing the Systems
19. The Journey's End: Now What? The Study Success Companion: The Key to Your Successful Journey

ABOUT THE AUTHOR(S)

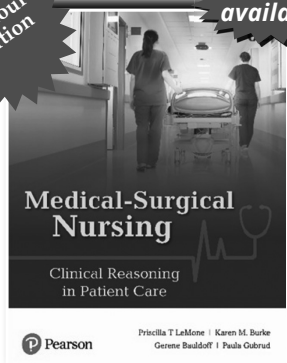
Bruce Colbert is the Director of the Allied Health Department at the University of Pittsburgh at Johnstown. He holds a Master's in Health Education and Administration, has authored four books, written several articles, and given over 175 invited lectures and workshops at both the regional and national level.

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Karen Lee is an Associate Professor in the Biology Department at the University of Pittsburgh at Johnstown, where she teaches all the anatomy courses, including Anatomy and Physiology for Nursing and Allied Health students. She presents regularly at scientific conferences

4 Colour
Edition

E-Book
available



ISBN: 9789353062026

Medical-Surgical Nursing: Clinical Reasoning in Patient Care, 6/e



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



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ABOUT THE BOOK

Medical-Surgical Nursing: Clinical Reasoning in Patient Care, 6e 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

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

UNIT 2 Alterations in Patterns of Health

4. Nursing Care of Patients Having Surgery
5. Nursing Care of Patients Experiencing Loss, Grief, and Death
6. Nursing Care of Patients with Problems of Substance Abuse
7. Nursing Care of Patients Experiencing Disasters

UNIT 3 Pathophysiology and Patterns of Health

8. Genetic Implications of Adult Health Nursing
9. Nursing Care of Patients in Pain
10. Nursing Care of Patients with Altered Fluid, Electrolyte, and Acid-Base Balance

11. Nursing Care of Patients Experiencing Trauma and Shock

12. Nursing Care of Patients with Infections
13. Nursing Care of Patients with Altered Immunity
14. Nursing Care of Patients with Cancer

UNIT 4 Responses to Altered Integumentary Structure and Function

15. Assessing the Integumentary System
16. Nursing Care of Patients with Integumentary Disorders
17. Nursing Care of Patients with Burns

UNIT 5 Responses to Altered Endocrine Function

18. Assessing the Endocrine System
19. Nursing Care of Patients with Endocrine Disorders
20. Nursing Care of Patients with Diabetes Mellitus

UNIT 6 Responses to Altered Gastrointestinal Function

21. Assessing the Gastrointestinal System

- 22. Nursing Care of Patients with Nutritional Disorders
- 23. Nursing Care of Patients with Upper Gastrointestinal Disorders
- 24. Nursing Care of Patients with Bowel Disorders
- 25. Nursing Care of Patients with Gallbladder, Liver, and Pancreatic Disorders

UNIT 7 Responses to Altered Urinary Elimination

- 26. Assessing the Renal System
- 27. Nursing Care of Patients with Urinary Tract Disorders
- 28. Nursing Care of Patients with Kidney Disorders

UNIT 8 Responses to Altered Cardiovascular Function

- 29. Assessing the Cardiovascular and Lymphatic Systems
- 30. Nursing Care of Patients with Coronary Heart Disease
- 31. Nursing Care of Patients with Cardiac Disorders
- 32. Nursing Care of Patients with Vascular and Lymphatic Disorders
- 33. Nursing Care of Patients with Hematologic Disorders

UNIT 9 Responses to Altered Respiratory Function

- 34. Assessing the Respiratory System
- 35. Nursing Care of Patients with Upper Respiratory Disorders
- 36. Nursing Care of Patients with Ventilation Disorders
- 37. Nursing Care of Patients with Gas Exchange Disorders

UNIT 10 Responses to Altered Musculoskeletal Function

- 38. Assessing the Musculoskeletal System

- 39. Nursing Care of Patients with Musculoskeletal Trauma
- 40. Nursing Care of Patients with Musculoskeletal Disorders

UNIT 11 Responses to Altered Neurologic Function

- 41. Assessing the Nervous System
- 42. Nursing Care of Patients with Intracranial Disorders
- 43. Nursing Care of Patients with Spinal Cord Disorders and CNS Infections
- 44. Nursing Care of Patients with Neurologic Disorders

UNIT 12 Responses to Altered Sensory Function

- 45. Assessing the Eye and Ear
- 46. Nursing Care of Patients with Eye and Ear Disorders

UNIT 13 Responses to Altered Reproductive Function

- 47. Assessing the Male and Female Reproductive Systems
- 48. Nursing Care of Men with Reproductive System and Breast Disorders
- 49. Nursing Care of Women with Reproductive System and Breast Disorders
- 50. Nursing Care of Patients with Sexually Transmitted Infections Additional Chapters
- 51. Perioperative Nursing
- 52. Nursing Care of Patients with Communicable Diseases

Appendices

Glossary

Index

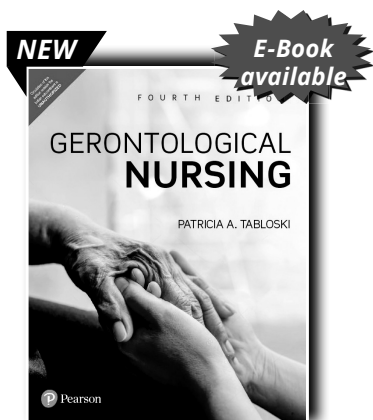
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ISBN: 9789356065864

Gerontological Nursing, 4/e

 Patricia A. Tabloski

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ABOUT THE BOOK

Gerontological Nursing is a comprehensive, research-based guide to the nursing care of older adults. It addresses normal and pathophysiological changes of aging, as well as psychosocial, cultural and public health influences. With a focus on “adding life to years,” not just extending life, the text explores evidence and best practices that promote safe and effective assessment, diagnosis and outcomes. The 4th Edition provides new evidence and standards affecting the care of aging populations. New practice opportunities help students respond to complex patient-care scenarios and prepare for success on the NCLEX-RN® exam.

FEATURES

- Normal changes and common diseases (acute and chronic) of aging are covered in clinical chapters, as a basis for nursing assessment and care.
- Complementary and alternative therapies, and how they interact with more traditional therapies, are another point of focus.
- Best Practices feature presents an assessment instrument, protocol or nursing intervention identified as the best course of care for an older patient with a given health problem.
- Ethical Dilemma critical-thinking questions now follow case studies to help students apply clinical reasoning to the scenarios they may encounter in the care of older patients.
- American Geriatrics Society Beers Criteria for potentially inappropriate medication use in older adults, plus related guidelines, are covered in a new appendix. Excellent Pedagogy
- Nursing care plans
- Case studies
- Evidence-based practice guidelines
- Patient-family teaching guidelines
- Healthy-Aging Tips
- NCLEX®-style multiple-choice review questions

CONTENTS

PART 1: Foundations of Nursing Practice

1. Principles of Gerontology
2. Contemporary Gerontological Nursing
3. Principles of Geriatrics

PART 2: Challenges of Aging and the Cornerstones of Excellence in Nursing Care

4. Cultural Diversity
5. Nutrition and Aging
6. Pharmacology and Older Adults
7. Psychological and Cognitive Function
8. Sleep and the Older Adult
9. Pain Management
10. Violence and Elder Mistreatment
11. Care at the End of Life

PART 3: Physiological Basis of Practice

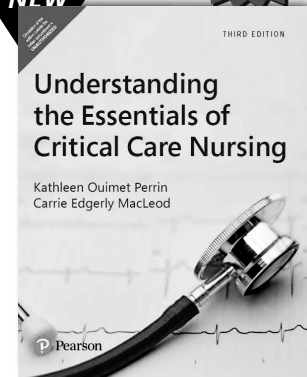
12. The Integument
13. The Mouth and Oral Cavity
14. Sensation: Hearing, Vision, Taste, Touch, and Smell
15. The Cardiovascular System
16. The Respiratory System
17. The Genitourinary and Renal Systems
18. The Musculoskeletal System
19. The Endocrine System
20. The Gastrointestinal System
21. The Hematologic System
22. The Neurologic System
23. The Immune System
24. Caring for Frail Older Adults with Comorbidities

ABOUT THE AUTHOR

Patricia A. Tabloski Boston College, School of Nursing


NEW

E-Book
available



ISBN: 9789356062351

Understanding the Essentials of Critical Care Nursing, 3/e

 Kathleen Perrin | Carrie Ed MacLeod

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ABOUT THE BOOK

An introduction to critical care that helps nurses deliver safe, effective care that optimizes patients' outcomes. Understanding the Essentials of Critical Care Nursing provides novice critical care nurses with a firm foundation so that they are able to understand the complexities of care; deliver safe, effective care; and begin their transition to expert nurses. It identifies concepts and techniques that are unique to critical care nursing and focuses on the essentials of providing care to patients with disorders that are commonly seen in critical care settings. Evidence-based practices, safety initiatives, commonly used medications, and leading technologies for

providing better care are highlighted throughout the book. By concentrating on the problems that the new critical care nurse is most likely to encounter, the text establishes the groundwork students need to become increasingly effective nurses capable of offering advanced care.

FEATURES

- Reflects a patient-centered approach that helps beginning critical care nurses deliver safe, effective care that optimizes patients' outcomes.
- Keeps readers current with new recommendations for practice with significant changes in the provision of sedation and pain medication as well as the management of ventilation, heart failure, stroke, blood, or volume resuscitation in trauma, palliative care, and sepsis.
- Gerontologic and Bariatric Considerations in every chapter highlight the unique needs of the elderly and overweight.
- Building Technology Skills sections focus on the technologies nurses are most likely to encounter when caring for patients experiencing the conditions discussed in each chapter.
- Prepares students for the uniquely difficult challenges of caring for patients at the end of life.
- Essentials explore specific opportunities to promote comfort, provide nutrition, enhance communication, and maintain safety—reflecting the areas identified by the Robert Wood Johnson Foundation's Nurse of the Future initiative.

CONTENTS

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. What is Critical Care? 2. Care of the Critical Ill Patient 3. Care of the Patient with Respiratory Failure 4. Interpretation and Management of Basic Dysrhythmias 5. Cardiodynamics and Hemodynamic Regulation 6. Care of the Patient Experiencing Shock 7. Care of the Patient Experiencing Heart Failure 8. Care of the Patient Experiencing Acute Coronary Syndrome 9. Care of the Patient Following Traumatic Injury 10. Care of the Patient Experiencing an Intracranial Dysfunction | <ol style="list-style-type: none"> 11. Care of the Patient With a Cerebral or Cerebrovascular Disorder 12. Care of the Critically Ill Patient Experiencing Alcohol Withdrawal and/or Liver Failure 13. Care of the Patient With an Acute Gastrointestinal Bleed or Pancreatitis 14. Care of the Patient with Problems in Glucose Metabolism 15. Care of the Patient with Acute Kidney Injury 16. Care of the Organ Donor and Transplant Recipient 17. Care of the Acutely Ill Burn Patient 18. Care of the Patient with Sepsis 19. Care of the ICU Patient at the End of Life |
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ABOUT THE AUTHOR

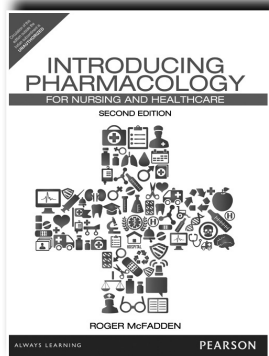
Kathleen Quimet Perrin, PhD, RN, CCRN, is professor emerita and adjunct professor of nursing at Saint Anselm College in Manchester, New Hampshire, where she has taught critical care nursing, professional nursing, ethics, health assessment and understanding suffering. While teaching at the college, she received the AAUP award for Excellence in

Teaching. She received her bachelor's degree from the University of Massachusetts, Amherst, her master's degree from Boston College, and her PhD from Union Institute and University in Cincinnati, Ohio. She has been a practicing critical care nurse for more than 40 years, and has been a member of the American Association of Critical Care (AACN) Nurses for nearly as long. Kathleen has served on the board of the Southern New Hampshire AACN and is a past president of the chapter. She has been on numerous review panels for the national AACN. She was a member of the board of directors and President of the Epsilon Tau chapter of Sigma Theta Tau International. She has published and presented in the areas of critical care nursing, nursing ethics, nursing history, suffering experienced by patients and health care providers, and conflict among members of the health care team. She has written two other nursing texts: Nursing Concepts: Ethics and Conflict, and Palliative Care Nursing: Caring for Suffering Patients, which won an AJN Book of the Year Award in 2011.

Carrie Ederly MacLeod PhD, APRN-BC, currently works as a nurse practitioner in Cardiac Surgery Intensive Care in Massachusetts. She has also worked in critical care settings at major teaching institutions in New Hampshire and New York. She received her bachelor's degree from Saint Anselm College and both her master's degree and PhD from the William F. Connell School of Nursing, Boston College. She has served as a faculty member at both at Saint Anselm and Boston College where she taught pharmacology, pathophysiology, and critical care nursing. She has published in the areas of patients' and family caregivers' experiences after cardiac surgery. Dr. MacLeod has lectured on management of the critically ill client at many symposiums across the United States. She has received both academic and clinical awards for her contributions to critical care nursing and client care.

PHARMACOLOGY

Introducing Pharmacology: For Nursing and Healthcare, 2/e



ISBN: 9789332517295



Roger McFadden



368 | © 2014

ABOUT THE BOOK

This new edition of *Introducing Pharmacology* remains an accessible and relevant introduction for nursing and healthcare students who are new to pharmacology, as well as anyone looking to refresh their knowledge of the subject.

Focused and engaging, the text balances accessibility with depth. Coverage of anatomy and physiology as well as pathophysiology helps to relate the subject to practical realities and makes this text stand out.

FEATURES

- Extend coverage of the pharmacopoeia with a completely new chapter on anti-cancer drugs.
- New sections, including general anaesthetics, hay-fever and prescribing for special groups such as children, pregnant women and the elderly.
- Fully updated with the Recommended International Non-proprietary Names (rINN) for drugs as used in the British National Formulary.
- Inclusion of a new glossary of key terms and definitions.

CONTENTS

Part 1 Principles of pharmacology

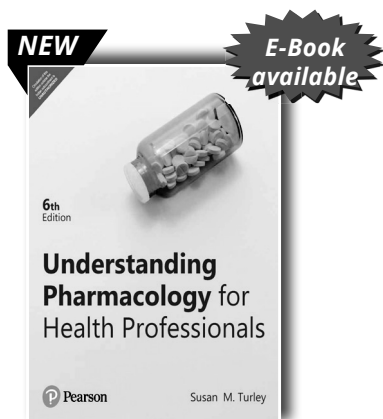
1. Let's start at basics: cells and how they work
2. Protein targets for drugs
3. Side-effects, interactions and pharmacokinetics

Part 2 The major drug groups

4. The cardiovascular system I: drugs used in the management of coronary artery disease
5. The cardiovascular system II: hypertension and antihypertensive drugs
6. Inflammation and the management of pain
7. Disorders and drugs of the digestive system
8. Infection and anti-microbial drugs
9. Disorders and drugs of the respiratory system
10. Disorders and drugs of the endocrine system
11. Drugs used in the treatment of mental health and neurological disorders
12. Drugs used in the treatment of Cancers and Chemotherapy

ABOUT THE AUTHOR

Roger McFadden is Senior Lecturer in Applied Physiology at Birmingham City University



ISBN: 9789361596278

Understanding Pharmacology for Health Professionals, 6/e

 Susan M. Turley

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ABOUT THE BOOK

Understanding Pharmacology for Health Professionals simplifies the vast world of drugs and pharmaceuticals. It groups drug categories by therapeutic effects and the disease they're used to treat. The text streamlines drug data through an A-Z Drug Reference along with other resources.

FEATURES

- Every chapter and each appendix has been updated with the most current generic and trade name drugs. Drug categories and drug information are current right up to the date of publication.
- This edition has more illustrations and photographs of real drugs. The images picture drug forms, drug packages, drug labels and drugs being administered to patients.
- “See-and-say” drug pronunciations appear after every generic drug in the chapters and appendices. The A-Z Drug Reference includes pronunciations for both generic and trade name drugs.
- Word part and meaning boxes helps students see how a complex word can be broken down into its word parts and meanings. This helps deepen their understanding of medical terminology.
- Chapter-ending review has been expanded. It now includes additional types of questions: matching, true or false, and fill in the blank.

CONTENTS

Unit I: Introduction to Pharmacology

1. Introduction to Pharmacology
2. Drug Testing, Drug Forms, and Drug Measurements
3. Prescriptions and Using Drugs Therapeutically

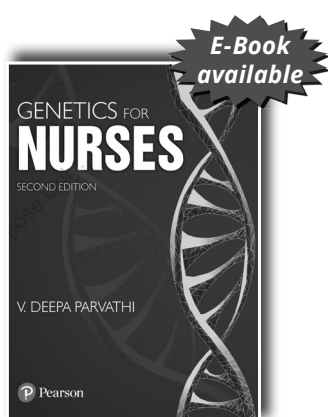
Unit II: Drugs Related to a Body System

4. Gastrointestinal Drugs
5. Analgesic Drugs and Musculoskeletal Drugs
6. Respiratory Drugs
7. Cardiovascular Drugs
8. Hematologic Drugs
9. Anti-Infective Drugs
10. Urinary Drugs
11. Reproductive Drugs
12. Neurologic Drugs
13. Psychiatric Drugs
14. Endocrine Drugs
15. Integumentary and Ophthalmic Drugs

ABOUT THE AUTHOR

Susan M. Turley, MA (Educ), BSN, RN, RHIT, is an experienced educator and practitioner in many areas of health care. She has a Master of Arts degree in adult education, a Bachelor of Science degree in nursing and national certification in the field of health information management. As a nurse, Susan has worked and administered drugs in neonatal and pediatric intensive care units, physician office settings and a plasmapheresis center. She has also worked in an administrative capacity in managed care and long-term care, as a quality manager, health information manager, physician office auditor and infection control officer. She has also created physician credentialing databases. As an educator, Susan has been an adjunct professor, teaching an introductory pharmacology course for students in the pharmacy technician, medical assisting and respiratory therapy programs at a community college. She also taught medical terminology and medical transcription courses there for many years, and she developed the bachelor's and master's curricula for the International Institute of Original Medicine. Susan was the co-leader for many medical transcription instructor training sessions, sponsored by Health Professions Institute. She was also a guest speaker at several seminars to prepare students to take health information management national certification examinations, sponsored by Stevens College.

GENETICS



ISBN: 9789357053259

Genetics for Nurses, 2/e

 V Deepa Parvathi

 276 | © 2023



ABOUT THE BOOK

Genetics for Nurses aims to provide a clear, comprehensive, rigorous, and balanced introduction to genetics at the college level. Designed for the core subject on genetics offered to undergraduate students of nursing, this book presents the theoretical concepts in a lucid style along with colour illustrations, numerous review questions and case-specific problems pertaining to genetic disorders that help students identify and diagnose clinical conditions. The content of this book has been framed based on the curriculum designed by the Nursing Council of India. The topics have been grouped into five units in such a way that the book takes the students from classical genetics through clinical genetics and diagnosis to the latest advances in genetics, adding emphasis to social and ethical issues.

FEATURES

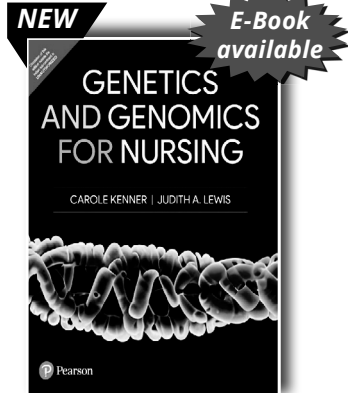
- Detailed coverage of prenatal genetic testing and diagnosis
- Comprehensive coverage of spontaneous abortion and conditions affecting the pregnant mother, with special emphasis on teratogens
- Lucid and elaborate explanation of the cell division cycles- mitosis and meiosis
- Patterns of inheritance and mutation dealt in detail
- New sections on Huntington's disease, rare genetic disorders and protocols for genetic diagnosis

CONTENTS

1. Nature, Principles and Perspectives of Heredity
2. Maternal, Prenatal and Genetic Influences on Development of Defects and Diseases
3. Screening Methods for Genetic Defects and Diseases in Neonates and Children
4. Genetic Disorders in Adolescents and Adults
5. Role of Nurse in Genetic Services and Counselling

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ISBN: 9789356063983

Genetics and Genomics for Nursing

 Carole Kenner | Judith A. Lewis

 408 | © 2024



ABOUT THE BOOK

This book brings together the genetics and genomics knowledge nurses need to provide safe and effective care in today's "genomic era." It teaches through small, modular units, each with pretests, section quizzes, and post-tests. Answers are provided to help students check their knowledge, and Emerging Evidence and Critical Thinking checkpoints encourage them to apply it. The text first places modern genetics in context, introduces its essential principles, and outlines its deep ethical, legal, social, and public policy implications. Next, readers learn how to take family genetic histories and assess risks; utilize immunogenetics and cancer genetics in

cancer prevention and treatment; apply genetics in public health promotion; recognize the role of genes in psychiatric illnesses and in aging; and much more.

FEATURES

- Helps students link genetics to all facets of safe and effective patient care—including patient engagement, patient safety, quality, and outcomes
- Provides multiple opportunities for students to check and reinforce their learning—including Pre and Post tests, coupled with review questions after each section of each chapter
- Helps students identify the latest evidence-based trends related to genetic medicine and healthcare—presenting up-to-the-minute information in Emerging Evidence boxes throughout the text
- Explains the critical importance of genetics in public health—with a full section on public health genetics, including a chapter on environmental interactions with genes
- Illuminates new gene-related insights into psychiatric disorders—explaining recent progress in understanding depression, addictions, autism, and other mental health problems.

CONTENTS

Part 1: Back to the Basics

1. Genetics and Genomics: Definitions and Trends
2. Essential Competencies in Genetics and Genomics
3. Family Context of Clinical Genetics

Part 2: Basic Genetic Concepts

4. Genes & Chromosomes; Meiosis and Mitosis
5. Aneuploidy
6. Mosaicism
7. Mendelian Inheritance
8. Genetics and Fetal Development

Part 3: Ethical, Legal, and Social Implications

9. Ethical, Legal, & Social Implications of the Human Genome Project
10. Prenatal Testing/Screening
11. Newborn Screening and Genetic Testing: Ethical Considerations
12. Genetic Information Nondiscrimination Act (GINA) Legislation



Part 4: Assessment

- 13. Family History Tool Module
- 14. Risk Assessment.

Part 5: Cancer Genetics

- 15. Immunogenetics
- 16. Cancer Genetics

Part 6: Public Health Genetics

- 17. Impact of Environment on Health: Interaction with Genes
- 18. Common Diseases with Genetic Linkages

Part 7: Psychiatric Disorders

- 19. Bipolar Disease and Genetic Linkages.
- 20. Depression and Genetic Linkages
- 21. Addictive Behaviors and Genetic Linkages
- 22. Autism

Part 8: Special Topics

- 23. Pharmacogenomics
- 24. Genetics and Aging Resources

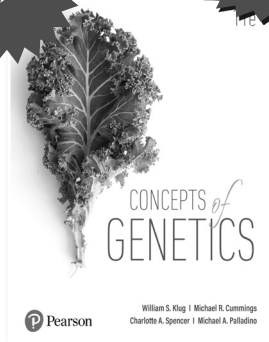
ABOUT THE AUTHOR

Carole A. Kenner, PhD, RNC-NIC, NNP, FAAN, is nationally and internationally known for her policy-setting work to establish rights of the neonate, standards for the care of the neonate and the reduction of infant mortality worldwide. Dr. Kenner holds many titles, including Dean/Professor, School of Nursing, and Associate Dean, Bouve College of Health Sciences, at Northeastern University, Boston, and Adjunct Professor, Case Western Reserve University, Cleveland. She also serves as President, Consultants with Confidence, Inc., West Roxbury, MA; Consultant, Excelsior University Online Program, Albany, NY; and Trainer, End-of-Life Nursing Education Consortium in Pediatric Palliative Care (ELNEC), Washington, DC. She has published > 75 peer-reviewed journal articles, 30 books, and at least 80 book chapters. Dr. Kenner has participated as PI, Co-PI or Consultant on nearly 60 research grants. She is a member of four honorary organizations, including the AAN (elected 1994) and is a member of numerous review panels, editorial boards, and consultant groups.

Judith A. Lewis (Ph.D., University of Michigan) retired in 2008 from Governors State University, where she served as Professor and Chair of Addictions Studies and Behavioral Health. A licensed psychologist in Illinois, she is a past president of the American Counseling Association (ACA) and the International Association of Marriage and Family Counselors.

4 Colour Edition

E-Book available



ISBN: 9789353940409

Concepts of Genetics, 11/e



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



816 | © 2020

ABOUT THE BOOK

Pearson presents the Eleventh Edition of *Concepts of Genetics*—a text now entering its fourth decade of providing support for students studying in this field, has occasioned still another fresh look. In addition to the normal updating that is inevitably required, this new edition focusses on the need to increase the opportunities for instructors and students to engage in **active and cooperative learning approaches** and the need to provide more **comprehensive, cutting-edge coverage of important and emerging topics** in genetics. This edition emphasizes the fundamental ideas of genetics and a strong problem-solving approach, while exploring modern techniques and applications of genetic analysis.

FEATURES

- **Modern Approaches to Understanding Gene Function** feature challenges students to understand how modern gene targeting approaches have dramatically advanced our understanding of gene function.
- **Evolving Concept of the Gene** is a short feature, integrated in appropriate chapters, that highlights how scientists' understanding of what a gene is has changed over time.
- **Three new Special Topics in Modern Genetics** mini-chapters explore cutting-edge topics, including updated content on Emerging Roles of RNA, Genetically Modified Foods, and Gene Therapy.
- **Neurogenetics** has been completely reworked and redefined to reflect the wealth of information regarding the impact of genetics on the field of neurobiology, linking genetic analysis to brain function and brain disorders.

CONTENTS

Part One: Genes, Chromosomes, and Heredity

1. Introduction to Genetics
2. Mitosis and Meiosis
3. Mendelian Genetics
4. Extensions of Mendelian Genetics
5. Chromosome Mapping in Eukaryotes
6. Genetic Analysis and Mapping in Bacteria and Bacteriophages
7. Sex Determination and Sex Chromosomes
8. Chromosome Mutations: Variation in Number and Arrangement
9. Extranuclear Inheritance

Part Two: DNA: Structure, Replication, and Variation

10. DNA Structure and Analysis
11. DNA Replication and Recombination
12. DNA Organization in Chromosomes

Part Three: Gene Expression, Regulation, and Development

13. The Genetic Code and Transcription
14. Translation and Proteins
15. Gene Mutation, 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

Part Four: Genomics

20. Recombinant DNA Technology
21. Genomics, Bioinformatics, and Proteomics
22. Applications and Ethics of Genetic Engineering and Biotechnology

Part Five: Genetics of Organisms and Populations

23. Quantitative Genetics and Multifactorial Traits
24. Neurogenetics
25. Population and Evolutionary Genetics

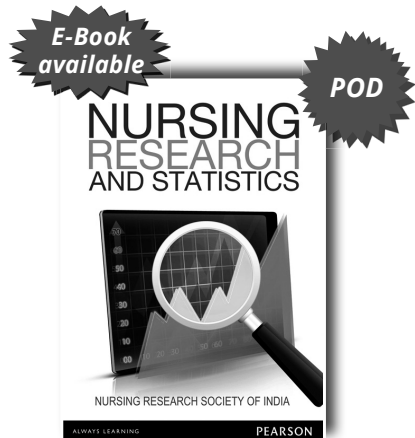
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William S. Klug is an Emeritus Professor of Biology at The College of New Jersey (formerly Trenton State College) in Ewing, New Jersey, where he served as Chair of the Biology Department for 17 years.

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ISBN: 9788131775707

Nursing Research and Statistics

 Nursing Research Society of India

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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

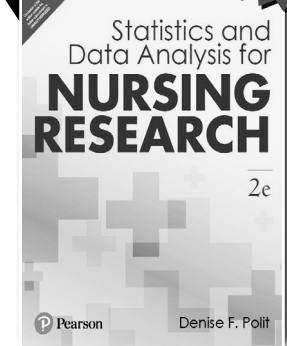
1. Introduction to Nursing Research
2. Research Process
3. Research Problem
4. Review of literature
5. Theoretical and Conceptual Framework
6. Ethics in Research
7. Quantitative and Qualitative Research Approaches and Designs
8. Population, Sampling and Data Collection Methods in Qualitative Research
9. Population and Sampling in Quantitative Studies
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 AUTHOR

The Nursing Research Society of India (NRSI) was established in May 1986. From its inception, it has been working continuously to promote research within and around the nursing environment. NRSI also supports the development of nursing research activities in universities and provides nursing care standards to nursing health-care institutions.

NEW

**E-Book
available**



ISBN: 9789356065949

Statistics and Data Analysis for Nursing Research, 2/e

 **Denise F. Polit**

 **456** | © **2024**



ABOUT THE BOOK

The second edition of *Statistics and Data Analysis for Nursing Research*, uses a conversational style to teach students how to use statistical methods and procedures to analyze research findings. Students are guided through the complete analysis process from performing a statistical analysis to the rationale behind doing so. In addition, management of data, including how and why to recode variables for analysis, how to “clean” data, and how to work around missing data, is discussed.

FEATURES

- Research Examples – are used to illustrate key points in the text and to stimulate students’ thinking about research questions and analytic options.
- Clear, “user friendly” style – used in this book was designed to make the content digestible and non-intimidating. Concepts are introduced carefully and systematically, difficult ideas are presented clearly.
- Specific practical tips on performing analyses – every chapter includes several tips for applying the chapter’s lessons to real-life situations.
- Guidance on presenting statistical results – indicates what information to report in the text versus in tables and figures, and includes exemplary tables that can be used as templates for many statistical analyses.
- Exercises – Student exercises are included at the end of every chapter.
- Further aids to student learning – bolded terms when new concepts are introduced; succinct, bulleted summaries at the end of each chapter; and tables and figures that provide examples and graphic materials in support of the text discussion.

CONTENTS

1. Introduction to Data Analysis in an Evidence-Based Practice Environment
2. Frequency Distribution: Tabulating and Displaying Data
3. Central Tendency, Variability, and Location
4. Correlation, Cross tabulation, and Risk Indexes: Describing Relationships
5. Statistical Inference
6. *t*-Tests
7. Analysis of Variance
8. Chi Square and Other Non-parametric Tests
9. Correlation and Simple Regression
10. Multiple Regression
11. Analysis of Covariance, MANOVA, and Other Related Multivariate Techniques
12. Using Logistic Regression
13. Factor Analysis and Internal Consistency Reliability Analysis
14. Missing Values

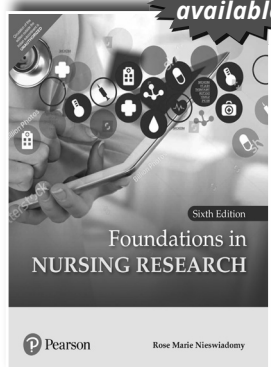
ABOUT THE AUTHOR

Denise F. Polit Humanalysis, Inc., Saratoga Springs, NY

Foundations in Nursing Research, 6/e

 Rose Marie Nieswiadomy

 344 | © 2020



ISBN: 9789353437770

ABOUT THE BOOK

This engaging, learner-friendly text illuminates all steps of the nursing research process, helping students critique research and determine whether study findings are ready to apply in practice. To illustrate specific aspects of the research process, the author extensively excerpts from published studies, including research performed outside the U.S. Pedagogical features include chapter outlines, objectives, definitions of key terms, summaries, class activities, and self-tests.

This Sixth Edition has been revised with up-to-date information and references throughout; more coverage of both quantitative and qualitative research; greater focus on evidence-based practice; and an all-new chapter on nursing research and health care economics that helps nurses clearly understand the financial value of the services they offer, and communicate that value more effectively to colleagues and stakeholders.

FEATURES

- Excerpts from 85 nursing research studies drawn from 60 nursing journals—including recent studies conducted by nurses in the U.S. and around the world.
- Up-to-the-minute coverage of Web-based research techniques—including new examples of Internet mega search engines, coverage of all four online CINAHL databases, the free Clinical Trials online database, and information on accessing OJIN.
- More than 300 terms, with clear definitions—demystifying the language of research by presenting all new terms in bold, and clearly defining them on first reference.
- “Get Involved” Activities—including structured simulations that challenge students to collaborate realistically with other students or colleagues.
- New! Includes all-new appendix on critiquing research studies—providing a reference to a recent research article in a clinical nursing journal, with specific questions to use in evaluating it.

CONTENTS

Part I Introduction to Nursing Research

1. Development of Nursing Research
2. Ethical Issues in Nursing Research
3. An Overview of Quantitative Research
4. An Overview of Qualitative Research

Part II Preliminary Steps in the Research Process

5. Identifying Nursing Research Problems
6. Review of the Literature
7. Theory and Nursing Research
8. Hypotheses

Part III Research Designs

9. Quantitative Research Designs
10. Qualitative Research Designs

Part IV Obtaining Study Participants and Collection of Data

11. Populations and Samples
12. Measurement and Collection of Data
13. Data Collection Methods

Part V Data Analysis

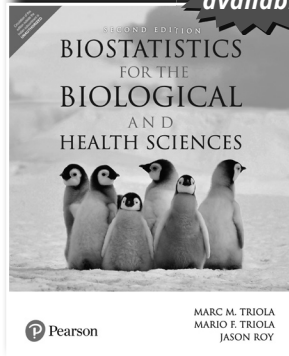
14. Descriptive Statistics
15. Inferential Statistics.
16. Presentation and Discussion of Study Findings
17. Part VI Research Findings and Nursing Practice
18. Communication and Utilization of Nursing Research
19. Evidence-Based Nursing Practice
20. Nursing Research and Health Care Economics
21. Critique of Research Reports

ABOUT THE AUTHOR(S)

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Biostatistics for the Biological and Health Sciences, 2/e

E-Book
available



ISBN: 9789353436537

Marc M. Triola | Mario F. Triola

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ABOUT THE BOOK

Biostatistics for the Biological and Health Sciences uses a variety of real-world applications to bring statistical theories and methods to life. Through these examples and a friendly writing style, the **2nd Edition** ensures that students understand concepts and develop skills in critical thinking, technology, and communication. The result of collaboration between two biological sciences experts and the author of the #1 statistics book in the US, this text provides an excellent introduction to statistics for students studying the biological, life, medical, and health sciences.

FEATURES

- Latest and best methods used by professional statisticians are incorporated.
- New examples, exercises, and Chapter Problems provide relevant and interesting real-world statistical applications, including biometric security, self-driving cars, smartphone data speeds, and the use of drones for delivery.
 - More than 1,600 exercises are included in the text, and nearly 85% are brand new!
 - More than 200 examples are scattered throughout the book, and almost 85% are new!
- EXPANDED! Larger data sets give students a more comprehensive look at concepts.
- UPDATED! Real Data Sets: 89% of the exercises in the text use real data, and 87% of the examples feature real statistics.
- Easy-to-assign exercises are graded by difficulty, and exercises that are particularly difficult or involve a new concept appear at the end of exercise sets and are marked by an asterisk, making it easy for instructors to assign homework.
- Statistical Software: SPSS, SAS, STATDISK, MINITAB, Excel, and TI-83/84 Plus output appear throughout the text.

EXCELLENT PEDAGOGY

- Chapter-Opening Features
- Margin Essays
- Flow Charts
- Chapter Quick Quizzes
- Review Exercises
- Cumulative Review Exercises
- Technology Projects
- Cooperative Group Activities
- From Data to Decision: Critical Thinking Projects

CONTENTS

1. Introduction to Statistics
2. Exploring Data with Tables and Graphs
3. Describing, Exploring, and Comparing Data
4. Probability
5. Discrete Probability Distributions
6. Normal Probability Distributions
7. Estimating Parameters and Determining Sample Sizes
8. Hypothesis Testing
9. Inferences from Two Samples
10. Correlation and Regression
11. Goodness-of-Fit and Contingency Tables
12. Analysis of Variance
13. Nonparametric Tests
14. Survival Analysis

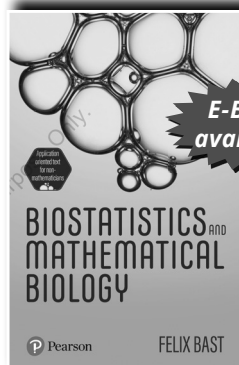
ABOUT THE AUTHOR

Dr. Triola is the associate dean for educational informatics and an associate professor of medicine at NYU Langone Health, where he is also the founding director of the Institute for Innovations in Medical Education, known as IIME.

Biostatistics and Mathematical Biology

 **Felix Bast**

 **372** | © **2023**



ISBN: 9789356066267

ABOUT THE BOOK

A comprehensive textbook of biostatistics targeted at non-mathematicians at an advanced bachelor level and above.

The book sequentially covers basic mathematics topics essential for biologists, such as scientific methodology, levels of measurement, and explores more advanced concepts, including Bayes Theorem and Non-linear regression, thereby complying with the biostatistics syllabus of various universities as well as competitive examinations. This application oriented book focuses on the decision-making process during statistical tests and graphing, which test/graph to use, how much

would be the minimum sample size, how to interpret the results, and so on. Authored by Prof. Felix Bast, whose course in UGC SWAYAM, "Biostatistics and Mathematical Biology" had been ranked the 7th best MOOC worldwide in 2020".

FEATURES

- Concise yet comprehensive textbook on the fundamental concepts of statistics.
- Focused on choosing the correct statistical test and interpreting the results.
- Non-mathematical approach; suitable for biologists and medical students.
- Clear-cut recommendations for various statistical tests and their variations.

CONTENTS

1. Introduction to Biostatistics and Mathematical Biology
2. Types of Studies
3. Levels of Measurements
4. Summarizing Data: Tabular Presentation
5. Summarizing Data: Graphical Presentation
6. Charting with Excel
7. Descriptive Statistics: Point Estimates
8. Descriptive Statistics: Interval Estimates
9. Error Bars
10. Moments, Normality Tests and Outliers
11. Concepts of Population, Sample and Confidence Intervals
12. Statistical Hypothesis Testing
13. Statistical Significance and P-Values
14. Relationship between Confidence Intervals and Statistical Significance
15. Statistical Power and Choosing the Right Sample Size
16. t-distribution and Tests of Significance Based on t-distribution
17. F-distribution and Tests of Significance Based on the F-distribution
18. Post-Hoc Tests
19. χ^2 -distribution and Tests of Significance Based on χ^2 -distribution
20. Comparing Proportions
21. Gaussian, Lognormal, Binomial and Poisson Distributions
22. Pearson's Correlation
23. Simple Linear Regression
24. Non-linear Regression, Multiple Regression, and Logistic Regression
25. Non-parametric Tests
26. Permutations and Combinations
27. Probability
28. Likelihood and Bayes' Theorem
29. Key Concepts of Statistics and Statistical Pitfalls to Avoid

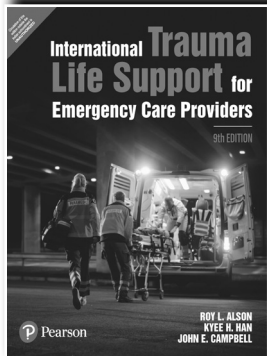


ABOUT THE AUTHOR


Prof. Felix Bast is an award-winning Indian Science Communicator and a public educator working currently as a full Professor at Central University of Punjab, India. He is an expert panelist of Paris-based International Science Council, an elected fellow of Linnean Society of London, and a member of IUCN, Geneva. He holds Ph.D. in Marine Biology from MEXT, Japan (alumnus of Monbukagakusho:MEXT Japanese Govt. international doctoral fellowship), and served as expedition scientist in Indian Antarctic Mission.



International Trauma Life Support, 9/e



ISBN: 9789356063969

 Roy L Alson | Kye H. Han | John E Campbell

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ABOUT THE BOOK

A decades-long leader in trauma education For over 30 years, International Trauma Life Support for Emergency Care Providers has been at the forefront of trauma education for all levels of prehospital emergency care worldwide. This complete resource is filled with practical, hands-on training that guides readers through the how's and the why's of all the skills needed for rapid assessment, resuscitation, stabilization, and transportation of the trauma patient. The 9th edition reflects the latest and most effective approaches to prehospital trauma care, including a more functional approach to assessment and management.

FEATURES

- The text conforms to the latest guidelines on trauma care from the American Heart Association, International Liaison Committee on Resuscitation, and Committee on Trauma of the American College of Surgeons.
- Revised - The text has been completely reorganized to reflect a more functional approach to the assessment and management of the trauma patient. It is now divided into four sections:
 - Essential Information
 - Foundational Knowledge
 - Special Populations
 - Appendices
- Expanded - Chapter 1 now discusses changes put forth by the Hartford Consensus with regard to scene safety and team-based, multidisciplinary trauma care.
- Expanded - Chapter 19 now examines how advancing age increases mortality and identifies it as an independent risk factor for needing trauma care.
- Updated - Chapter 4 now includes updated techniques for managing hemorrhage, some of which reflect the latest experiences of the military during recent conflicts.
- Updated - Chapters 11 and 12 now incorporate the current science and evolution of when to apply spinal motion restriction based on published guidelines.
- Expanded - Chapter 13 now includes pelvic fractures, as associated with concurrent abdominal injuries.

CONTENTS

Section 1: Essential Information

1. Introduction to Traumatic Disease
2. Trauma Assessment and Management
3. Assessment Skills
4. Hemorrhage Control and Shock

Section 2: Foundational Knowledge

8. Thoracic Trauma
9. Thoracic Trauma Skills
10. Spinal Trauma and Spinal Motion Restriction
11. Spine Management Skills
12. Head Trauma and Traumatic Brain Injury

Section 3: Special Populations

17. Burns
18. Pediatric Trauma
19. Geriatric Trauma

5. Shock and Hemorrhage Control Skills
6. Airway Management
7. Airway Skills

13. Abdominal Trauma
14. Extremity Trauma
15. Extremity Trauma Skills
16. Traumatic Arrest

20. Trauma in Pregnancy
21. The Impaired Patient

ABOUT THE AUTHOR(S)

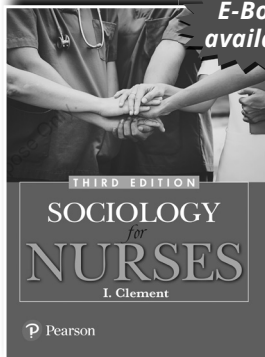
Roy L. Alson, PhD, MD, FACEP, FAEMS, is a professor of emergency medicine at Wake Forest University School of Medicine and the former director of the Office of Prehospital and Disaster Medicine, also at Wake Forest.

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John E. Campbell, MD, FACEP (deceased), received his BS degree in pharmacy from Auburn University in 1966 and his medical degree from the University of Alabama at Birmingham in 1970. He practiced emergency medicine for 40 years, in Alabama, Georgia, New Mexico, and Texas. Dr. Campbell became interested in prehospital care in 1972 when he was asked to teach a basic EMT course to members of the Clay County Rescue Squad.

SOCIOLOGY

Sociology for Nurses, 3/e



ISBN: 9789357053273

 I Clement

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ABOUT THE BOOK

In its pursuit to bring about an awakening among students of nursing about human social behaviour, this third 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 B.Sc. Nursing students in their first year, for the paper on Applied Sociology, this book provides jargon-free explanation of even the most difficult concepts for student's benefit.

FEATURES

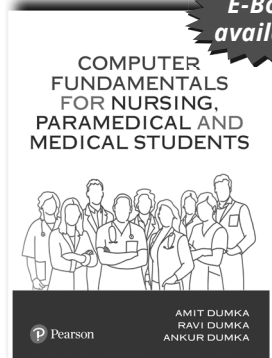
- New topics as per Indian Nursing Council syllabus have been included in the units on Social structure, Culture, Social stratification and Social organization and disorganization.
- New unit on Clinical sociology has been added.
- Additional emphasis provided to sociological concepts and their applications from the standpoint of the practising nurse.
- Core concepts have been exemplified with vivid illustrations and reinforced by rich pedagogy.
- Each chapter has been supplemented with numerous end-of-chapter review questions and objective-type questions.

CONTENTS

1. CHAPTER 1 Introduction to Sociology
2. CHAPTER 2 Social Structure
3. CHAPTER 3 Culture
4. CHAPTER 4 Family and Marriage
5. CHAPTER 5 Social Stratification
6. CHAPTER 6 Social Organization and Disorganization
7. CHAPTER 7 Clinical Sociology

ABOUT THE AUTHOR(S)

I. Clement Professor & Principal Sparsh College of Nursing, Bengaluru.



**E-Book
available**



Amit Dumka | Ravi Dumka | Ankur Dumka



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ISBN: 9789357052931

FEATURES

- Demonstrates the use of computer and technology in patient care, nursing education, practice, administration and research.
- Describes the principles of health informatics and its use in developing efficient healthcare.
- Numerous screenshots to aid follow and practice approach

CONTENTS

1. Chapter 1 Basic Concepts of Computers
2. Chapter 2 Operating System
3. Chapter 3 An Introduction to MS-Word
4. Chapter 4 An Introduction to MS-Excel
5. Chapter 5 An Introduction to PowerPoint
6. Chapter 6 An Introduction to Microsoft Access
7. Chapter 7 Application of Internet and e-Mail
8. Chapter 8 An Introduction to Multimedia
9. Chapter 9 Statistical Packages: Usages and Types
10. Chapter 10 Hospital Management System (HMS): Types and Usage
11. Chapter 11 Application of Computers in Medical Education and Health Informatics (Nursing/Health Informatics)

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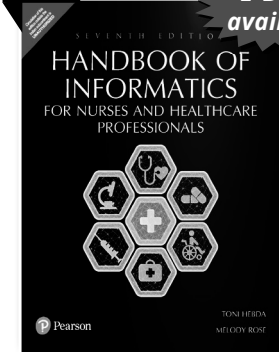
Ravi Dumka HP India Sales Pvt. Ltd.,

Ankur Dumka Women Institute of Technology Dehradun, Uttarkhand Graphic Era Deemed to be University Dehradun, Uttarakhand.

Handbook of Informatics for Nurses & Healthcare Professionals, 7/e

NEW

**E-Book
available**



ISBN: 9789361597664

 **TONI HEBDA | MELODY ROSE**

 **528** | © **2024**



ABOUT THE BOOK

Handbook of Informatics for Nurses and Healthcare Professionals examines key issues in adopting and applying healthcare IT and nursing informatics. The contributing authors cover the concepts, skills, and tasks needed to achieve the goals of transforming healthcare delivery. The 7th Edition reflects rapid changes in healthcare IT and informatics. It looks at how the global pandemic has forced a re-examination of healthcare and healthcare delivery, escalated the deployment of IT to track infection and support care, and paved the way for a greater role for nursing and healthcare informatics.

FEATURES

- Includes new Topics in Healthcare IT and Informatics:
- Chapter Updates: New Chapter 3 addresses the challenges of technology in healthcare, while Chapter 20 explores the future directions of nursing informatics on a national and international scale.
- Emerging Content: Includes topics on equitable and inclusive healthcare, genomics for population health, international collaborations, and combating structural, systemic, and institutional racism.
- Chapters have been thoroughly revised to reflect the current and evolving practice of healthcare IT and informatics.
- Presents content on information systems training and presents it within the context of workforce development.

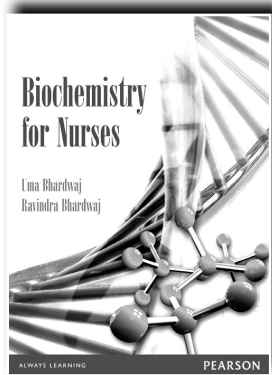
CONTENTS

1. An Overview of Informatics in Healthcare
2. Informatics Theory and Practice
3. The Challenges of Technology in Healthcare
4. Electronic Resources for Healthcare Professionals
5. Using Informatics to Support Evidence-Based Practice and Research
6. Policy, Legislation, and Regulation Issues for Informatics Practice
7. Electronic Health Information and Record Systems
8. Strategic Planning and Project Management Concepts for HIT and Quality Improvement Initiatives
9. Healthcare Information Technology: Implementation, Maintenance, and Evaluation
10. Improving the Usability of Health Informatics Applications
11. Information Networks and Information Exchange
12. Workforce Development
13. Information Security and Confidentiality
14. Continuity Planning and Management and Disaster Recovery
15. The Role of Standardized Terminology and Language in Informatics
16. Using Informatics to Educate
17. Consumer Health Informatics
18. Connected Healthcare (Telehealth and Technology-Enabled Healthcare)
19. Public Health Informatics
20. A Glimpse into the Future of Nursing Informatics

ABOUT THE AUTHOR(S)

Toni Hebda, PhD, RN-C, CNE, is a professor with the Chamberlain College of Nursing MSN Program, teaching in the nursing informatics track. She has held several academic and clinical positions over the years and worked as a system analyst. Her interest in informatics provided a focus for her dissertation, and subsequently led her to help establish a regional nursing informatics group, obtain a graduate degree in information science, and conduct research related to informatics. She is a reviewer for the Online Journal of Nursing Informatics. She is a member of informatics groups and has presented and published in the field.

Melody Rose, DNP, RN, CPHIMS, is an adjunct instructor with Franklin University in the MS Health Informatics and DS Healthcare Administration programs, as well as a practicing clinician in the field of Healthcare Informatics. She is a 2014 graduate of Duke University School of Nursing DNP program and a 2011 graduate of Walden University School of Nursing MSN, Informatics Specialty. Dr. Rose has organized health informatics seminars, presented implementation strategy lectures for a major pharmaceutical company, and lectured internationally in the field of Nursing Informatics.



ISBN: 9788131768563

Biochemistry for Nurses

 **Uma Bhardwaj | R Bhardwaj**

 **296 | © 2012**

ABOUT THE BOOK

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

FEATURES

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

CONTENTS

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

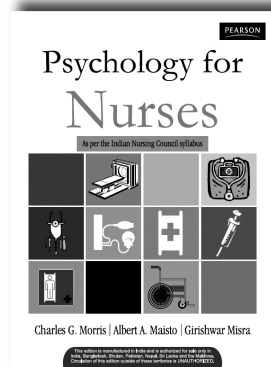
ABOUT THE AUTHOR(S)

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.

Psychology for Nurses

 **Charles G. Morris | Albert A. Maisto | Girishwar Misra**

 **260 | © 2010**



ISBN: 9788131732168

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 | 9. Stress and Coping |
| 2. The Genetic and Biological Bases of Behavior | 10. Personality |
| 3. Sensory and Perceptual Processes | 11. Life-span Development |
| 4. Learning | 12. Mental Hygiene, Mental Health, and Positive Psychology |
| 5. Memory | 13. Psychological Disorders and Therapies |
| 6. Thinking, Language, and Communication | 14. Attitudes |
| 7. Intelligence and Aptitude | 15. Group Psychology |
| 8. Motivation and Emotion | |

ABOUT THE AUTHOR(S)

Charles G. Morris, a Ph.D. in psychology from the University of Illinois, is Professor Emeritus at the University of Michigan. He served as Associate Dean in the College of Literature, Science and the Arts and as Associate Chair of the Department of Psychology. He is a Fellow of the American Psychological Association and the American Psychological Society. Dr Morris is also the author of more than two dozen books, more than a dozen articles, and more than thirty papers and presentations.

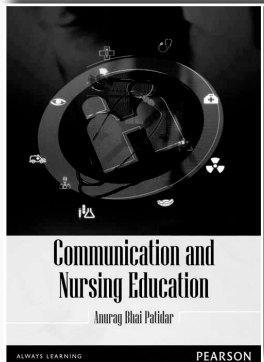
Albert A. Maisto earned a Ph.D. in psychology from the University of Alabama. Throughout his career, Dr Maisto distinguished himself as an exemplary instructor of general psychology winning the prestigious Bank of America Award for Teaching Excellence. His portfolio includes dozens of published articles in refereed journals, professional papers, and a successful series of Introductory Psychology textbooks by Pearson Education.

Girishwar Misra, currently professor of psychology at the University of Delhi, has served as President of the National Academy of Psychology (NAOP) India, Chairman of the department of psychology, and as Dean of the faculty of arts at Delhi University. Dr Misra has undertaken major research projects and written extensively in the areas such as poverty, stress, environment, creativity, and well-being. During the course of his career, he has won some prestigious awards and has supervised research work of many doctoral students.

Communication and Nursing Education

 **Anurag Bhai Patidar**

 **384** | © **2012**



ISBN: 9788131788394

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 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. Class room 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(S)

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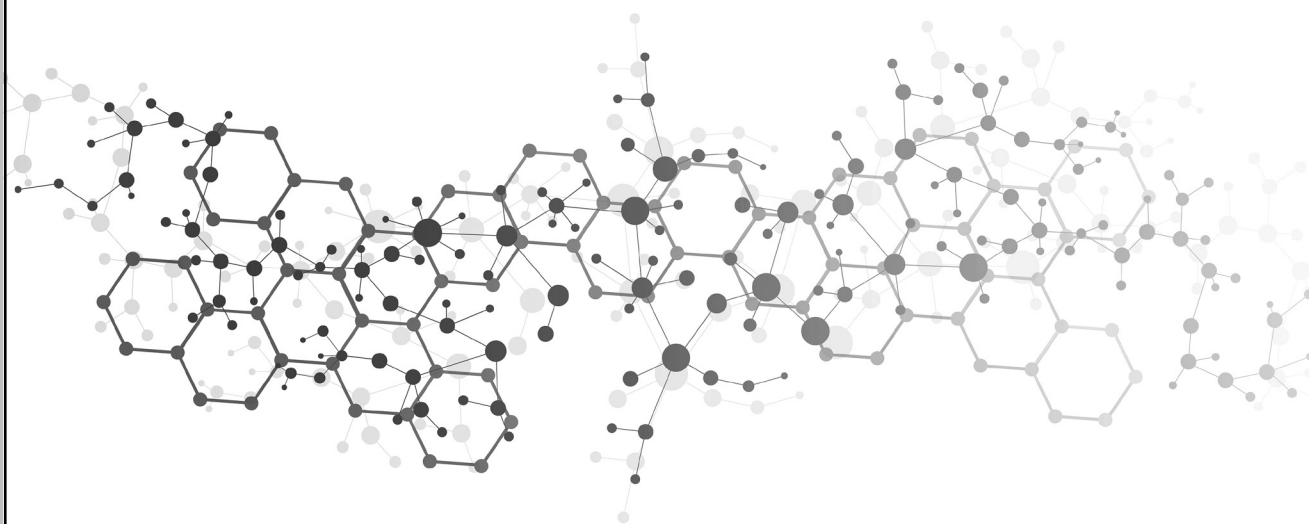


AUTHOR INDEX

ISBN	Author	Title	Price	Page
9789356063969	Alson / Han / Campbell	International Trauma Life Support, 9/e	1120	30
9789357052931	Amit Dumka / Ravi Dumka / Ankur Dumka	Computer Fundamentals for Nursing, Paramedical and Medical Students by Ankur Dumka	520	32
9788131788394	Anurag Bhai Patidar	Communication and Nursing Education	399	36
9789332587441	Bauman	Microbiology with Diseases by Body System, 4/e	1740	5
9789332587274	Bauman	Microbiology with Diseases by Taxonomy, 4/e	1505	6
9789353949273	Berman / Snyder / Frandsen	Kozier and Erb's -Fundamentals of Nursing, 11/e	2290	1
9788131769621	Bhatnagar	English for Nurses	370	4
9789332535190	Cappuccino / Sherman	Microbiology: A Laboratory Manual, 10/e	1210	8
9788131773345	Clement	Nursing Ethics: Concepts, Trends and Practices	500	11
9789357053273	Clement	Sociology for Nurses, 3/e	650	31
9789332586802	Colbert / Ankney / Lee	Anatomy, Physiology, and Disease: An Interactive Journey for Health Professions, 3/e	1075	12
9789357053259	Deepa Parvathi	Genetics for Nurses, 2/e	430	20
9789332525276	Deepa Parvathi / Sumitha / Smitha. S	Microbiology for Nurses	419	10
9789356066267	Felix Bast	Biostatistics and Mathematical Biology	620	28
9789353436520	George	Nursing Theories : The Base for Professional Nursing Practice, 6/e	1170	3
9789361597664	Hebda / Rose	Handbook of Informatics for Nurses & Healthcare Professionals, 7/e	769	33
9789356063983	Kenner / Lewis	Genetics and Genomics for Nursing	670	21
9789353940409	Klug / Cummings / Spencer / Palladino / Killian	Concepts of Genetics, 11/e	1560	23
9789353062026	LeMone / Burke / Bauldoff / Gubrud	Medical-Surgical Nursing: Clinical Reasoning in Patient Care, 6/e	2740	14

ISBN	Author	Title	Price	Page
9789332517295	McFadden	Introducing Pharmacology: For Nursing and Healthcare, 2/e	660	18
9788131732168	Morris / Maisto / Misra	Psychology for Nurses	319	35
9789353437770	Nieswiadomy	Foundations in Nursing Research, 6/e	610	26
9788131775707	Nursing Research Society of India	Nursing Research and Statistics	670	24
9789356062351	Perrin / MacLeod	Understanding the Essentials of Critical Care Nursing, 3/e	910	17
9789356065949	Polit	Statistics and Data Analysis for Nursing Research, 2/e	680	25
9789356065864	Tabloski	Gerontological Nursing, 4/e	1090	16
9789353436537	Triola / Triola	Biostatistics for the Biological and Health Sciences, 2/e	990	27
9789361596278	Turley	Understanding Pharmacology for Health Professionals, 6/e	800	19
9788131768563	Uma Bhardwaj / Bhardwaj	Biochemistry for Nurses	279	34

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Pharmacy



CONTENTS

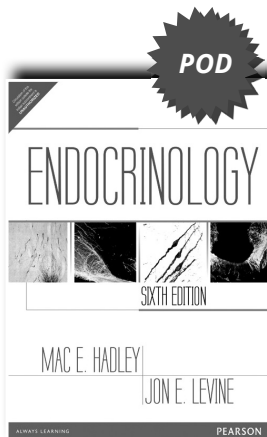
» Human Anatomy and Physiology-I	2.1
» Pharmaceutical Analysis.....	2.2
» Pharmaceutics-I.....	2.5
» Communication Skills	2.6
» Remedial Mathematics.....	2.11
» Pharmaceutical Organic Chemistry	2.12
» Biochemistry	2.22
» Computer Applications in Pharmacy.....	2.23
» Environmental Sciences	2.24
» Pharmaceutical Organic Chemistry-II	2.26
» Physical Pharmaceutics-I.....	2.29
» Pharmaceutical Microbiology	2.30
» Pharmaceutical Engineering.....	2.31
» Pharmaceutical Organic Chemistry-III	2.36
» Medicinal Chemistry-I.....	2.40
» Physical Pharmaceutics-II.....	2.42
» Pharmacology-I.....	2.43

» Medicinal Chemistry-II	2.44
» Medicinal Chemistry-III	2.46
» Instrumental Methods of Analysis	2.49
» Biostatistics and Research Methodology	2.52
» Cell and Molecular Biology.....	2.54
» Advanced Instrumentation Techniques.....	2.55
» Computer Fundamentals	2.58
» Supply Chain Management.....	2.59
» Pharma Marketing Management.....	2.60

Endocrinology, 6/e

 **Mac E. Hadley | Jonathan Levine**

 **608 | © 2009**



ISBN: 9788131726105

ABOUT THE BOOK

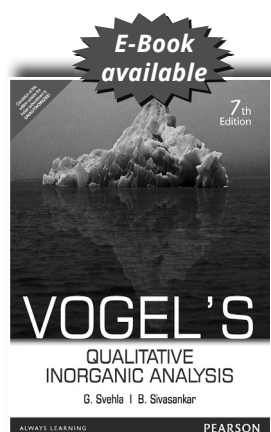
Appropriate for one-semester junior-graduate level courses in Endocrinology, Endocrine Physiology, as well as courses in medicine, dentistry, pharmacology, nutrition, nursing and other related medical or animal sciences where endocrinology is the focus. Hadley provides comprehensive coverage of endocrinology, centralizing on the critical roles of glands, hormones, receptors, and molecular signaling pathways in the control of physiological processes. This up-to-date Sixth Edition reviews the basic concepts, research methodologies, and the “state-of-the-art” scientific understanding of each of the major endocrine systems, in examples designed specifically for premedical and related professional courses.

FEATURES

- **Emphasizes that all aspects of hormone function—synthesis, secretion, delivery, action and disposal—are of great physiological significance.**
- **Special reference to the roles of chemical messengers in the control of homeostatic systems—**In the overall discussion of homeostasis.
- **Coverage of the most recent molecular, genetic, and physiological—**As well as the more classical methodologies.
- **Traces the evolution of hormone structure—**In relation to the comparative endocrinology of neurohypophysial hormones.

CONTENTS

1. Introduction to Endocrinology.
2. The Vertebrate Endocrine System.
3. General Mechanisms of Hormone Action.
4. Endocrine Methodologies.
5. Pituitary Hormones.
6. The Endocrine Hypothalamus.
7. Neurohypophysial Hormones.
8. Melanotropic Hormones.
9. Hormonal Control of Calcium Homeostasis.
10. Gastrointestinal Hormones.
11. Pancreatic Hormones and Metabolic Regulation.
12. Growth Hormones.
13. Thyroid Hormones.
14. Catecholamines and the Sympathoadrenal System.
15. Adrenal Steroid Hormones.
16. Endocrinology of Sex Differentiation and Development.
17. Hormones and Male Reproductive Physiology.
18. Hormones and Female Reproductive Physiology.
19. Endocrinology of Pregnancy, Parturition and Lactation.
20. Endocrine Role of the Pineal Gland.



ISBN: 9788131773710

Vogel's Qualitative Inorganic Analysis, 7/e

 G. Svehla | B. Sivasankar

 384 | © 2013

ABOUT THE BOOK

Vogel's Qualitative Inorganic Analysis (in its seventh edition) follows the current trends and techniques in the field of analytical chemistry. Written for undergraduate and postgraduate students of chemistry, this revised and updated edition treats each concept and principle systematically to make the subject comprehensible to beginners as well as advanced learners.

FEATURES

- Updated nomenclature
- Addition of tests for metals based on flame atomic emission and atomic absorption spectrometry
- New classification of mixtures of common and less common ions
- Marginalia highlighting important facts
- Elaborate discussions on preliminary tests, dissolution and fusion of samples
- Health and hazard warnings throughout the text
- Details on the preparation of reagents provided in the appendix

CONTENTS

- | | | |
|-----------------------------|-----------------------------------|---------------------------------------|
| 1. Introduction | 4. Reactions of the Anions | 6. Reactions of Some Less Common Ions |
| 2. Experimental Techniques | 5. Selected Tests and Separations | |
| 3. Reactions of the Cations | | |

ABOUT THE AUTHOR(S)

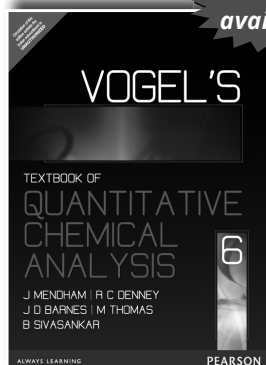
G. Svehla is a formerly professor from the department of chemistry, University College, York, Ireland.

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Vogel's Quantitative Chemical Analysis, 6/e

J. Mendham | David J. Barnes | R.C. Denney | M. J. K. Thomas

836 | © 2009



E-Book
available

ISBN: 9788131723258

ABOUT THE BOOK

Dr. Vogel's classic introduction to analytical methods has provided generations of chemists worldwide with a basis for teaching, learning and applying analytical chemistry. This 60th anniversary edition - the first for a decade - reflects major changes in the subject. Analysts need to understand the concepts behind methods and *Vogel's Quantitative Chemical Analysis* provides clear introductions to all the key analytical methods including those involving advanced computerised equipment available in many analytical laboratories. The editors have built further on the work of Dr Vogel, modernising the approach while retaining the analytical concepts and ideas which

were built into the original work. This new edition has been extensively revised to take into account developments in instrumental procedures and coupled techniques whilst maintaining the book's focus on quantitative chemical and problem-specific analyses. With excellent cross-referencing this book provides a wealth of examples and tables of data.

FEATURES

- Comprehensive coverage of methods with detailed easy-to-follow practical experiments.
- Basic analytical theory which is essential for understanding the subject.
- Greatly expanded sections on instrumental analysis including aspects of miniaturisation.
- Increased emphasis on minor/trace component analysis and revised statistical handling of data.
- New chapters on sampling, mass spectrometry and nuclear magnetic resonance.

CONTENTS

1. Preface to First Edition.
2. Preface to Sixth Edition.
3. Safety; Units.
4. Reagent Purity.
5. Introduction.
6. Fundamental Theoretical Principles of Reactions in Solution.
7. Common Apparatus & Basic Techniques.
8. Statistics, Introduction to Chemometrics.
9. Sampling.
10. The Basis of Separative Methods.
11. Thin Layer Chromatography.
12. Liquid Chromatography.
13. Gas Chromatography.
14. Titrimetric Analysis.
15. Gravimetric Analysis.
16. Thermal Analysis.
17. Direct Electroanalytical Methods.
18. Nuclear Magnetic Resonance Spectroscopy.
19. Atomic Absorption Spectroscopy.
20. Atomic Emission Spectroscopy.
21. Molecular Electronic Spectroscopy.
22. Vibrational Spectroscopy.
23. Mass Spectrometry

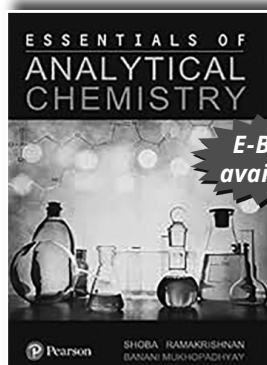
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M.J.K. Thomas, University of Greenwich

Essentials of Analytical Chemistry

 Shobha Ramakrishnan | Banani Mukhopadhyay

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**E-Book
available**

ISBN: 9789332545076

ABOUT THE BOOK

The book elucidates the principles of analytical methods such as volumetric analysis, gravimetric analysis, statistical methods of analysis, electro-analytical, and thermoanalytical techniques. It also presents the basic principles and instrumentation of UV, IR, NMR, Mass and ESR spectral methods, accompanied by a discussion on the spectra of a number of molecules, intended to develop the skill of the reader and to interpret the spectra of common organic molecules. This text will benefit those preparing for competitive examinations such as NET, SLET, GATE, and the UPSC Civil Services exam.

FEATURES

- Includes up-to-date developments in the field
- Detailed illustration of AES, AAS, and Flame Photometry
- Numerous review questions, solved problems and end of chapter exercises:

CONTENTS

Preface

Acknowledgements

About the Authors

UNIT I Statistical Methods of Analysis

1. Errors in Chemical Analysis and Statistical Data Treatment

UNIT II Quantitative Analysis

2. Volumetric (Titrimetric) Analysis
3. Gravimetric Analysis

UNIT III Thermal Methods of Analysis

4. Thermogravimetric Analysis
5. Differential Thermal Analysis
6. Thermometric Titration

UNIT IV Electroanalytical Techniques

7. Electrogravimetry

8. Polarography

UNIT V Atomic Spectroscopy

9. Atomic Emission Spectroscopy

10. Flame Emission Spectroscopy or Flame Photometry

11. Atomic Absorption Spectroscopy

UNIT VI Molecular Spectroscopy

12. Ultraviolet and Visible Spectroscopy

13. Infrared Absorption Spectroscopy

14. Nuclear Magnetic Resonance (NMR) Spectroscopy

15. Electron Spin Resonance Spectroscopy

UNIT VII Mass Spectrometry

16. Mass Spectrometry

Bibliography

Index

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Pharmaceutics-I Practicals



ISBN: 9789353439606

 **K. Elango**
 208 | © 2021
ABOUT THE BOOK

This text is intended for the undergraduate students of B.Pharmacy for the practical course on Pharmaceutics-I as per the latest PCI syllabus. The book includes solid dosage forms, semisolid dosage forms and liquid dosage forms, including fundamental unit operations required for manufacturing of pharmaceutical products. Written in a simple and lucid fashion, the experiments are sequenced in a logical order. It also features basic theoretical notes correlating to the different formulations dealt, which gives a clear understanding of the subject to the reader.

FEATURES

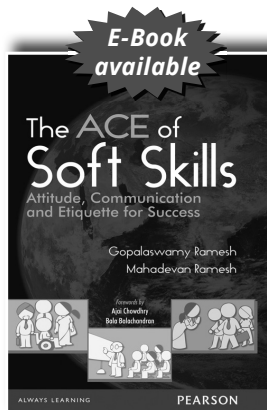
- Unambiguous classification of the various dosage forms
- Contains relevant prescriptions, formulae, procedures and labels for the individual preparations
- Stepwise approach to calculations for easy comprehension

CONTENTS

- | | | |
|---|--|--------------------------------------|
| 1. Dosage Forms – Classification | 13. Alcohol Dilution | 24. Mixtures |
| 2. Definitions of Pharmaceutical Dosage Forms | 14. Alligation Method Liquid Dosage Forms for External Use | 25. Elixir |
| 3. Metrology | 15. Ear Drops | 26. Linctus |
| 4. Solubility | 16. Enemas | 27. Syrups |
| 5. Storage | 17. Gargles | 28. Emulsions Semisolid Dosage Forms |
| 6. Posology | 18. Liniments | 29. Ointments |
| 7. Latin Terms | 19. Lotions | 30. Paste |
| 8. Percentage Solutions | 20. Mouthwash | 31. Creams |
| 9. Dilute Solutions | 21. Nasal Drops | 32. Jellies Solid Dosage Forms |
| 10. Stock Solutions | 22. Paints | 33. Powders |
| 11. Isotonic Solution | 23. Solutions Liquid Dosage Forms for Internal Use | 34. Granules |
| 12. Isotonic Calculation | | 35. Suppositories |

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ISBN: 9788131732854

The ACE of Soft Skills: Attitude, Communication and Etiquette for Success

 Gopalaswamy Ramesh | Mahadevan Ramesh

 472 | © 2010

ABOUT THE BOOK

Our world is witnessing a major change in communication patterns, with expanding social spheres, openness in communication and professionals working in multicultural environments. It is crucial, therefore, that India's workforce remains world-class, through re-training and continuous improvement, to remain competent, competitive and successful. To create and nurture successful professionals, the acquisition, cultivation and fine-tuning of soft skills are highly essential in the given business paradigm. **The ACE of Soft Skills** is a part of this educational process that produces top-notch professionals. Divided into three parts "Attitude, Communication and Etiquette" this unique book provides a broad-based coverage of what constitute soft skills. The foundations of soft skills lie in

a strong attitude; this attitude gets manifested as communication, which gets further refined as etiquette. This book covers a wide range of topics "a gamut of nearly 40 essential soft skills" including personal accountability, listening skills, business proposals, and the role of small talk and humour at work. The numerous case studies, cartoons, figures, tables and quotations not only offer an insightful, practical and well-rounded perspective into soft skills, but also make reading a joyful experience.

CONTENTS

1. Let Us Get Started!

Part I: Attitude

2. Big Picture, Pride, Passion and Process
3. Vision
4. Personal Accountability
5. Teamwork and You
6. Diversity Awareness
7. Lifelong Learning
8. Performance Expectations Management
9. The Art of Time Management
10. Stepping Up to the Plate
11. When Things Go Way Wrong at the Workplace
12. Tying It All Together: Work Your Way to Success

Part II: Communication

13. Understanding the Communication Cycle
14. Distortion in Communication
15. The 'Why' and 'To Whom' Parts of Communication:
16. Knowing the Objective of Communication and Audience Analysis
17. Preparing for the Communication
18. Listening Skills
19. Body Language
20. Vocal Variety: Using the Voice Channel
21. Visual Aids
22. Putting It All Together
23. Resume Writing
24. Interviews
25. Meetings

26. Proposals


27. Status Reports
28. Giving and Receiving Feedback
29. Performance Appraisals
30. How to Present Bad News
31. Presenting to the Senior Management

Part III: Etiquette

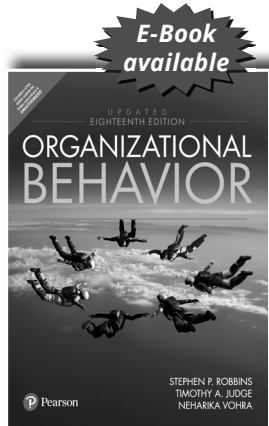
32. Phone Etiquette
33. E-mail Etiquette
34. Foreign Business Trips
35. Visits of Foreign Counterparts
36. The Big Deal About Small Talk
37. Respecting Privacy
38. Learning to Say 'No'
39. The Role of Humour in the Workplace
40. English-language Skills
41. Reach for the Moon

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Jamshedpur. His vast industry experience covers both India and abroad. He played a key role in the establishment of Oracle India Development Center and was its former Senior Director. He is the author of the National Award “winning book *Managing Global Software Projects*, and has also authored *Software Testing Principles and Practices and Software Maintenance*. Two of these books have also been translated into Chinese. His most recent book is *The ACE of Soft Skills: Attitude, Communication and Etiquette for Success*. He currently offers consultancy services in the areas of project management and soft skills to several companies in India and abroad. He holds an MS in engineering management from Stanford University, California; MS in computer science from IIT Madras and BE from IISc Bangalore. **Mahadevan Ramesh** graduated from IIT Kanpur (five-year integrated MSc degree in Physics) and earned a PhD (Physics) from the Ohio State University, USA. Following a research stint in the electrical and computer engineering department in Carnegie Mellon University, Pittsburgh, he worked for Storage Technology Corporation (now a part of Sun Microsystems/Oracle), and for Maxtor Corporation (now a part of Seagate Technologies) at Colorado, USA. He held leadership positions in global product teams and spent considerable time on the factory floor in Singapore, working with stakeholders from many different cultures, and learnt first hand the importance of soft skills. He is currently an adjunct professor in the SSN School of Management and Computer Applications, and he also consults on management and engineering, specializing in production and operations management.



ISBN: 9789356064270

Organizational Behavior, Updated, 18/e

 **Stephen P. Robbins | Timothy A. Judge | Neharika Vohra**

 **796 | © 2022**

ABOUT THE BOOK

The bestseller title Organizational Behavior 18e is now revised and updated. This updated 18th edition reflects the most recent research and business events within the field of organizational behavior, while maintaining its hallmark features – a clear writing style, cutting-edge content, and intuitive pedagogy. The text is lucid and makes current, relevant research come alive for readers. The book holds significance as a textbook for students of management and practicing professionals in organizations with engaging, cutting-edge material that aids to understand and connect with organizational behavior.

FEATURES

- Employability Skills Matrix to support the development of skills employers are looking for in today's business graduates.
- Updated - Opening-Chapter Vignettes bring current business trends and events to the forefront
- Career Objectives in every chapter provide advice, in a question-and-answer format to help students think through issues they may face in the workforce today.
- Updated - End-of-Chapter Experiential Activities, Ethical Dilemmas, and Cases.
- Real-world examples of organizational behavior
- Includes latest Indian case studies and research

CONTENTS

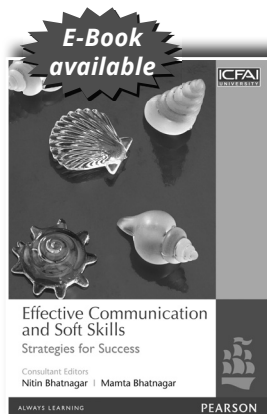
1. Introduction
 2. What Is Organizational Behavior?
 3. The Individual
 4. Diversity in Organizations
 5. Attitudes and Job Satisfaction
 6. Personality and Values
 7. Perception, Learning, and Individual Decision Making
 8. Emotions and Moods
 9. Motivation Concepts
 10. Motivation: From Concepts to Applications
 11. The Group
 12. Foundations of Group Behavior
 13. Understanding Work Teams
 14. Power and Politics
 15. Communication
 16. Leadership
 17. Foundations of Organization Structure
 18. The Organization System
 19. Organizational Culture
 20. Organizational Change and Stress Management
 21. Conflict and Negotiation
- Appendix Research in Organizational Behavior
Comprehensive Cases Glossary
Name Index
Organization Index
Subject Index

ABOUT THE AUTHOR(S)

Stephen P. Robbins, San Diego State University.


Timothy A. Judge; The Ohio State University.

Neharika Vohra; Indian Institute of Management Ahmedabad.



ISBN: 9788131760345

Effective Communication and Soft Skills

 Nitin Bhatnagar | Mamta Bhatnagar

 448 | © 2011

ABOUT THE BOOK

This book provides a clear understanding of the attributes of good communication vis-À-vis soft skills and hard skills. It guides you through each set of skills and provides practice and assessment modules to sharpen learning, while covering all the four tenets of language learning, listening, speaking, reading and writing. Covering all the topics essential for teachers and students of BCom, BBA and MBA and mass communications, as well as professionals in all industries, *Soft Skills and Communication Skills* is a complete manual to grooming yourself for inter-personal communication in the professional world.

FEATURES

- Situational case studies, illustrations and flow charts for clear grasp of concepts
- Model questions for practice and guidelines for answering difficult problems
- Highlights the linkages between soft skills and hard skills, illustrating the manner in which they can be utilized together in professional situations

CONTENTS

1. Introduction
2. About the Editors
3. Soft Skills: Growing Importance
4. Understanding Communication
5. Channels of Communication
6. Evolution and Theories of Communication
7. Models of Communication
8. Psychology and Communication
9. Pedagogy and Communication
10. Communication Skills
11. Communication: Spoken English
12. Communication: Written English
13. Emotional Skills
14. Interpersonal Effectiveness
15. Assertiveness Skills
16. Conflict Management and Negotiation Skills
17. Team-building Skills
18. Time-management Skills
19. Model Question Papers

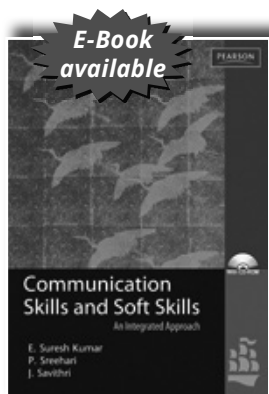
Communication Skills and Soft Skills : An Integrated Approach



E. Suresh Kumar | J. Savithri | P. Sreehari



208 | © 2010



ISBN: 9788131734537

ABOUT THE BOOK

Communication Skills and Soft Skills is an invaluable guide to students of professional courses, job seekers and people of various professions seeking to improve their soft skills. The unique feature of the book is that it integrates training in essential soft skills with all the four language skills "listening, speaking, reading and writing" and all the four language components, pronunciation, vocabulary, grammar and spelling. With its perfect blend of theory and practice, this book effectively meets the requirements of the present-day job market and other interactive spheres of their lives.

FEATURES

- Training in essential soft skills
- Uniquely designed practical approach to improving communication skills
- Guidance for all four language skills, listening, speaking, reading and writing
- Practice modules for all four language components, pronunciation, grammar, vocabulary and spelling

CONTENTS

Preface

1. Interpersonal Communication
2. Goal-setting
3. Personality Development
4. Critical Thinking
5. Stress Management
6. Team Work
7. Time Management
8. Essential Written Communication

Appendixes

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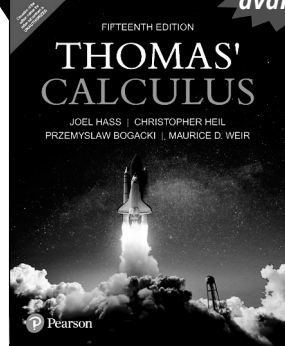
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Thomas' Calculus, 15/e

NEW

E-Book available



ISBN: 9788119896608



Maurice D. Weir | Joel Hass | Christopher Heil | Przemyslaw Bogacki



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ABOUT THE BOOK

Thomas' Calculus, goes beyond memorizing formulas and routine procedures to help students develop deeper understanding. It guides students to a level of mathematical proficiency and maturity needed for the course, with support for those who require it through its balance of clear and intuitive explanations, current applications and generalized concepts. The 15th Edition meets the needs of students with increasingly varied levels of readiness for the calculus sequence. This revision also adds exercises, revises figures and narrative for clarity, and updates many applications with modern topics.

FEATURES

- Many narrative clarifications and revisions have been made throughout the text.
- A new appendix on Determinants and Gradient Descent has been added, covering many topics relevant to students interested in Machine Learning and Neural Networks.
- Many updated graphics and figures have been enhanced to bring out clear visualization and mathematical correctness.
- Many exercise instructions have been clarified, such as suggesting where the use of a calculator may be needed.
- Notation of inverse trig functions has been changed throughout the text to favor \arcsin notation over \sin^{-1} , etc.

CONTENTS

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Functions 2. Limits and Continuity 3. Derivatives 4. Applications of Derivatives 5. Integrals 6. Applications of Definite Integrals 7. Transcendental Functions 8. Techniques of Integration 9. First-Order Differential Equations | <ol style="list-style-type: none"> 10. Infinite Sequences and Series 11. Parametric Equations and Polar Coordinates Appendix A Appendix B (online) Answers to Odd-Numbered Exercises Applications Index Subject Index A Brief Table of Integrals Credits |
|---|---|

EQ: Please update this section

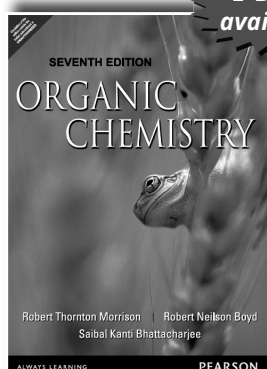
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George B. Thomas, Jr. (late) of the Massachusetts Institute of Technology, was a professor of mathematics for thirty-eight years; he served as the executive officer of the department for ten years and as graduate registration officer for five years. Thomas held a spot on the board of governors of the Mathematical Association of America and on the executive committee of the mathematics division of the American Society for Engineering Education.

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E-Book
available

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Organic Chemistry, 7/e



Robert Thornton Morrison | Robert Neilson Boyd | Saibal Kanti Bhattacharjee



1508 | © 2010



ABOUT THE BOOK

As in the earlier editions, the book conveys the important fundamentals and principles of the subject in a simple and easily understandable manner.

CONTENTS

Part 1: Fundamentals of Organic Chemistry

1. Structures of Organic Compounds
2. Structural Theory
3. Symmetry of Organic Molecules (Molecular Dissymmetry)
4. Types of Reactions of Organic Compounds
5. Alkanes, Cycloalkanes and Aromatic Hydrocarbons

Part 2: Chemistry of Functional Groups Alkenes

11. Alkynes
12. Alkyl Halides Nucleophilic Substitutions, S_N Reactions
13. Aryl Halides Nucleophilic Aromatic Substitution (S_NAr Reactions)
14. Alcohols and Ethers
15. Phenols
16. Aldehydes and Ketones Nucleophilic Addition
17. Carboxylic Acids
18. Functional Derivatives of Carboxylic Acids Nucleophilic Acyl Substitution
19. Amines

Part 3: Special Topics

20. Heterocyclic Compounds
21. Purification and Identification of Organic Compounds: Spectroscopic Analysis of Organic Compounds
22. Organic Synthesis
23. Oxidation and Reduction Electroorganic Synthesis
24. Molecular Orbitals; Orbital Symmetry (Pericyclic Reactions)
25. Organic Photochemistry

26. Synthetic Organic Compounds of Commercial Importance: Synthetic Dyes and Macromolecules
27. Symphoria (Anchimeric Assistance) Neighboring Group Effects. Catalysis by Transition Metal Complexes
28. Introduction to Supramolecular Chemistry Host-Guest Chemistry

Part 4: (Biomolecules and Bioorganic Chemistry)

29. Lipids Fats, Steroids, Terpenes, and Prostaglandins
30. Carbohydrates I: Monosaccharides. Carbohydrates II: Disaccharides and Polysaccharides
31. Alkaloids
32. Amino Acids and Proteins Molecular Biology
33. Enzymes, Co-Enzymes and Vitamins
34. Nucleic Acids Nucleotides, Polynucleotides and Nucleosides
35. Drugs Chemotherapeutic and Pharmacodynamic Agents

Part 5: Contemporary and Future Organic Chemistry

36. Nanoparticles (Size-Dependent Chemistry)
37. Future Devices and Challenges of Chemistry of this Century Molecular Machines or Nanomachines

ABOUT THE AUTHOR(S)

Robert Thornton Morrison, New York University

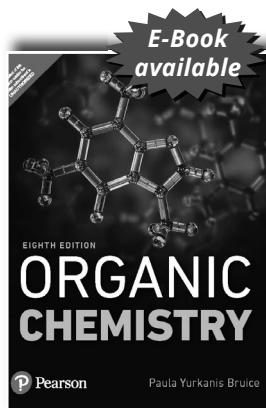
Robert Neilson Boyd, New York University

Saibal Kanti Bhattacharjee, Gauhati University

Organic Chemistry, 8/e

 Paula Yurkanis Bruice

 1368 | © 2020



ISBN: 9789353948450

ABOUT THE BOOK

Paula Bruice's presentation in organic chemistry, eighth edition provides mixed-science majors with the conceptual foundations, chemical logic, and problem-solving skills they need to reason their way to solutions for diverse problems in synthetic organic chemistry, biochemistry, and medicine. The eighth edition builds a strong framework for thinking about organic chemistry by unifying principles of reactivity that students will apply throughout the course, discouraging memorization. With more applications than any other textbook, Dr. Bruice consistently relates structure and reactivity to what occurs in our own cells and reinforces the fundamental

reason for all chemical reactions—electrophiles react with nucleophiles. New streamlined coverage of substitution and elimination, updated problem-solving strategies, synthesis skill-building applications and tutorials guide students throughout fundamental and complex content in both the first and second semesters of the course.

FEATURES

The textbook bridges the gap between organic chemistry and biochemistry. Because bioorganic chemistry is the bridge between organic chemistry and biochemistry, the text emphasizes that the organic reactions that chemists carry out in the laboratory are similar to those performed by nature inside a cell. These connections are especially important to biological science majors. -Revised, accuracy-checked text provides increased exam relevancy. -Improved visuals and organization engage students with difficult subject matter, organize the chapter content and improve ease of use. -Strengthened emphasis on the strategies needed to solve problems and master the content. -New and restructured features give students additional conceptual and skill building support. -Organizing What We Know about the reactions of organic compounds table. -Content updates and revisions to the table of contents streamline and improve clarity in the presentation.

CONTENTS

PART ONE: An Introduction to the Study of Organic Chemistry

1. Remembering General Chemistry: Electronic Structure and Bonding
2. Acids and Bases: Central to Understanding Organic Chemistry
3. An Introduction to Organic Compounds: Nomenclature, Physical Properties, and Structure

PART TWO: Electrophilic Addition Reactions, Stereochemistry, and Electron Delocalization

4. Isomers: The Arrangement of Atoms in Space
5. Alkenes: Structure, Nomenclature, and an Introduction to Reactivity • Thermodynamics and Kinetics
6. The Reactions of Alkenes • The Stereochemistry of Addition Reactions
7. The Reactions of Alkynes • An Introduction to Multistep Synthesis
8. Delocalized Electrons: Their Effect on Stability, pKa, and the Products of a Reaction • Aromaticity and Electronic Effects: An Introduction to the Reactions of Benzene

PART THREE: Substitution and Elimination Reactions

9. Substitution and Elimination Reactions of Alkyl Halides
10. Reactions of Alcohols, Ethers, Epoxides, Amines, and Sulfur-Containing Compounds
11. Organometallic Compounds
12. Radicals

PART FOUR: Identification of Organic Compounds

13. Mass Spectrometry; Infrared Spectroscopy; and UV/Vis Spectroscopy
14. NMR Spectroscopy

PART FIVE: Carbonyl Compounds

15. Reactions of Carboxylic Acids and Carboxylic Acid Derivatives
16. Reactions of Aldehydes and Ketones • More Reactions of Carboxylic Acid Derivatives
17. Reactions at the α -Carbon

PART SIX: Aromatic Compounds

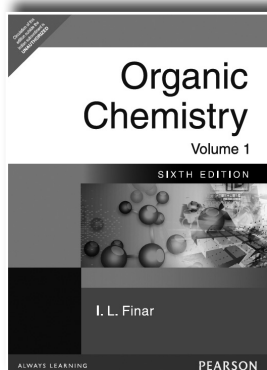
18. Reactions of Benzene and Substituted Benzenes
19. More About Amines • Reactions of Heterocyclic Compounds

- PART SEVEN: Bioorganic Compounds
20. The Organic Chemistry Of Carbohydrates
21. Amino Acids, Peptides, and Proteins
22. Catalysis in Organic Reactions and in Enzymatic Reactions
23. The Organic Chemistry of the Coenzymes, Compounds Derived from Vitamins

24. The Organic Chemistry of the Metabolic Pathways
25. The Organic Chemistry of Lipids
26. The Chemistry of the Nucleic Acids
PART EIGHT: Special Topics in Organic Chemistry
27. Synthetic Polymers
28. Pericyclic Reactions Appendices

ABOUT THE AUTHOR(S)

Paula Yurkanis Bruice is from the University Of California, Santa Barbara. Bruice earned her Ph.D. in chemistry from the University of Virginia. She then received an NIH postdoctoral fellowship for study in the Department of Biochemistry at the University of Virginia Medical School and held a postdoctoral appointment in the Department of Pharmacology at the Yale School of Medicine. Paula has been a member of the faculty at the University of California, Santa Barbara since 1972, where she has received the Associated Students Teacher of the Year Award, the Academic Senate Distinguished Teaching Award, two Mortar Board Professor of the Year Awards, and the UCSB Alumni Association Teaching Award. Her research interests center on the mechanism and catalysis of organic reactions, particularly those of biological significance



ISBN: 9788177585421

Organic Chemistry, Volume 1, 6/e

 I. L. Finar

 966 | © 2005

ABOUT THE BOOK

In the sixth edition of Dr. Finar's best-selling student text, a great deal of material has been rewritten and many new topics have been added. The arrangement of the subject matter is based on homologous series and SI units have been used throughout the text.

CONTENTS

1. Determination of Structure
2. Properties of Molecules
3. Alkanes
4. Alkenes and Alkynes
5. Halogen derivatives of the alkanes
6. Monohydric alcohols
7. Ethers
8. Aldehydes and ketones
9. Saturated monocarboxylic acids and their derivatives
10. Polycarbonyl compounds
11. Polyhydric alcohols
12. Unsaturated alcohols, ethers, carbonyl compounds and acids
13. Nitrogen compounds
14. Aliphatic compounds of sulphur, phosphorus, silicon and boron
15. Organometallic compounds
16. Saturated dicarboxylic acids
17. Hydroxyacids, stereochemistry, unsaturated dicarboxylic acids
18. Carbohydrates
19. Alicyclic compounds
20. Monocyclic aromatic hydrocarbons
21. Aromatic halogen compounds
22. Aromatic nitro-compounds
23. Aromatic amino-compounds
24. Diazonium salts and their related compounds
25. Aromatic sulphonic acids
26. Phenols and quinones
27. Aromatic alcohols, aldehydes and ketones
28. Aromatic acids
29. Polynuclear hydrocarbons and their derivatives
30. Heterocyclic compounds
31. Dyes and photochemistry

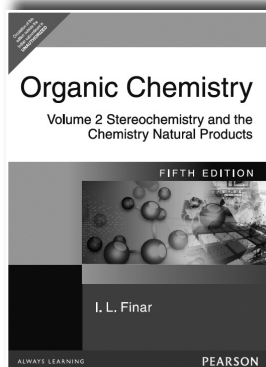
ABOUT THE AUTHOR

The late **Dr. Finar** was Principal Lecturer in Organic Chemistry at the Polytechnic of North London.

Organic Chemistry, Volume 2: Stereochemistry and the Chemistry Natural Products, 5/e

 I. L. Finar

 956 | © 2005



ISBN: 9788177585414

ABOUT THE BOOK

Organic Chemistry is a well-established two-volume textbook for students studying chemistry at degree level. Volume 2 carries the material of Volume 1: Fundamental Principles to a more advanced level. The author provides a comprehensive introduction to the relationship between physical properties and chemical structures, and then proceeds to a detailed account of stereochemistry. The later chapters are devoted to the most typical compounds of natural products and the problems involved. A selected number of reading references are given at the end of each chapter.

CONTENTS

1. Physical properties and chemical constitution
2. Optical isomerism
3. Nucleophilic substitution at a saturated carbon atom, asymmetric synthesis
4. Geometrical isomerism, stereochemistry of alicyclic compounds
5. Stereochemistry of biphenyl compounds
6. Stereochemistry of some elements other than carbon
7. Carbohydrates
8. Terpenoids
9. Carotenoids
10. Polycyclic aromatic hydrocarbons
11. Steroids
12. Heterocyclic compounds containing two or more hetero-atoms
13. Amino-acids and proteins
14. Alkaloids
15. Anthocyanins
16. Purines and nucleic acids
17. Vitamins
18. Chemotherapy
19. Haemoglobin, chlorophyll and phthalocyanines

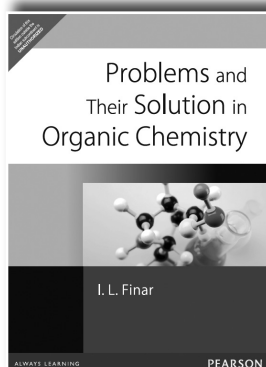
ABOUT THE AUTHOR

The late Dr. Finar was Principal Lecturer in Organic Chemistry at the Polytechnic of North London.

Problems and Their Solution in Organic Chemistry

 I. L. Finar

 360 | © 2006



ISBN: 9788131700938

ABOUT THE BOOK

The first part of this book collects together the questions set out at end of each chapter in the authors Textbook of Organic Chemistry, Volume 1 (sixth edition). The second part of this book gives the possible solutions, which are linked with an explanation of the sort of reasoning used in order to arrive at one of the answers. In many cases, several answers are given for one question; and in each set of questions, there is at least one which involves the completion of equations. The result is a book which can be used independently of the main volume. This book helps in acquiring a better understanding of the basic principles of organic chemistry and in revising a large amount of the subject matter quickly.

CONTENTS

1. Determination of Structure
2. Properties of Molecules
3. Alkanes
4. Alkenes and Alkynes
5. Halogen derivatives of the alkanes
6. Monohydric alcohols
7. Ethers
8. Aldehydes and ketones
9. Saturated monocarboxylic acids and their derivatives
10. Polycarbonyl compounds
11. Polyhydric alcohols
12. Unsaturated alcohols, ethers, carbonyl compounds and acids
13. Nitrogen compounds
14. Aliphatic compounds of sulphur, phosphorus, silicon and boron
15. Organometallic compounds
16. Saturated dicarboxylic acids
17. Hydroxyacids, stereochemistry, unsaturated dicarboxylic acids
18. Carbohydrates
19. Alicyclic compounds
20. Monocyclic aromatic hydrocarbons
21. Aromatic halogen compounds
22. Aromatic nitro-compounds
23. Aromatic amino-compounds
24. Diazonium salts and their related compounds
25. Aromatic sulphonic acids
26. Phenols and quinones
27. Aromatic alcohols, aldehydes and ketones
28. Aromatic acids
29. Polynuclear hydrocarbons and their derivatives
30. Heterocyclic compounds
31. Dyes and photochemistry

ABOUT THE AUTHOR(S)

The late **Dr. Finar** was Principal Lecturer in Organic Chemistry at the Polytechnic of North London.

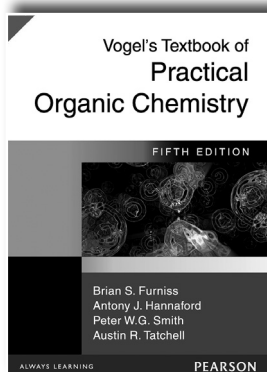
Vogel's Textbook of Practical Organic Chemistry, 5/e



Brian S. Furniss | Antony J. Hannaford | Peter W.G. Smith | Austin R. Tatchell



1544 | © 2006



ISBN: 9788177589573

ABOUT THE BOOK

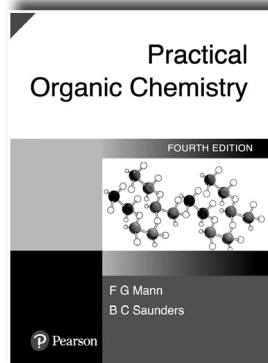
Still recognized as the definitive text on practical topics related to organic chemistry, this text is relied upon by undergraduates, postgraduate students, and professional organic chemists. Topics covered include the structural and theoretical principles required when designing a synthesis; the disconnection or synthon approach; the principles of retrosynthetic analysis applied to relevant aliphatic, aromatic, alicyclic and heterocyclic compounds; and developments in reaction techniques.

FEATURES

- An introductory chapter on the structural and theoretical principles required when designing a synthesis.
- The disconnection on synthon approach now integrated into the text, and the principles of retrosynthetic analysis applied to relevant aliphatic, aromatic, alicyclic and heterocyclic compounds.
- Synthesis methodology is expanded to cover a range of new reagents, including oxidants and reductants; reagents for asymmetric synthesis; and those derived from lithium, boron, silicon, phosphorous and sulphur.
- Recent developments in reaction techniques which include: handling of air-sensitive and moisture-sensitive compounds; new chromatographic procedures; phase transfer catalysis; and solid support reagents.
- Over 100 new experiments selected from the literature to illustrate new reagents and techniques, and the operation of protection, selectivity and control in synthesis.
- A more detailed treatment of carbon-13 n.m.r. spectroscopy, and the interpretation of spectroscopic data for many of synthesized compounds.

CONTENTS

1. Organic Synthesis.
2. Experimental Techniques.
3. Spectroscopic Methods and the Interpretation of Spectra.
4. Solvents and Reagents.
5. Aliphatic Compounds.
6. Aromatic Compounds.
7. Selected Alicyclic Compounds.
8. Selected Heterocyclic Compounds.
9. Investigation and Characterization of Organic Compounds.
10. Physical Constants of Organic Compounds.



ISBN: 9788131727102

Practical Organic Chemistry

 **F.G. Mann | B.C. Saunders**

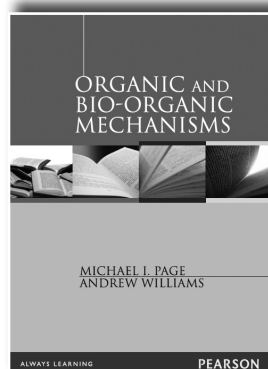
 **600 | © 2009**

ABOUT THE BOOK

This book has proved useful for research as well as for teaching purpose. The fourth edition of this book was distinguished from its predecessors by a greater emphasis on semi-micro methods and modern techniques and reactions. While updating the book in several important aspects, namely, chromatography, reaction mechanism, and safety and first-aid measures.

CONTENTS

- Part I: Methods and Manipulation
- Part II: Preparations
- Part III: Reactions and Identification of Organic Compounds
- Part IV: Quantitative Analysis
- Part V: Simple Enzyme Reactions



ISBN: 9788131729496

Organic and Bio-Organic Mechanisms

 **Michael I. Page | Andrew Williams**

 **312 | © 2009**

ABOUT THE BOOK

This text provides a comprehensive and detailed discussion of the investigation of organic and bioorganic reaction mechanisms. It addresses questions such as: 'How are bonds between atoms rearranged?', 'What sort of structural changes take place to cause bond fission and formation?' and 'How do catalysts lower the activation energies of reactions?'

FEATURES

- Techniques for diagnosis of mechanism not previously compiled from research literature.
- An important bridge between fundamental studies and mechanisms in solution.
- Key references from classic papers to the latest research literature.

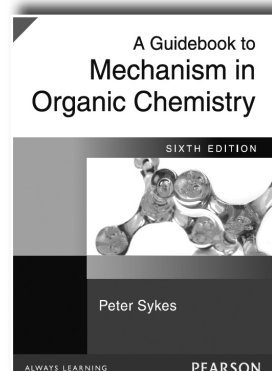
CONTENTS

1. The Transition State
2. Kinetics and Mechanism
3. The Effect of Changes in Reactant Structure
4. Kinetic and Equilibrium Isotope Effects
5. Transition States from External Effects
6. Transition State Structures - Anomalies
7. Bioorganic Group Transfer Reactions
8. Catalysis
9. Complexation Catalysis
10. Some Enzyme Systems

ABOUT THE AUTHOR(S)

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Andrew Williams, University of Kent at Canterbury

A Guidebook to Mechanism in Organic Chemistry, 6/e



ISBN: 9788177584332

 Peter Sykes

 428 | © 2005

ABOUT THE BOOK

This classic textbook on mechanistic organic chemistry, characterized by its clarity, careful choice of examples, and its general approach designed to lead to a greater understanding of the subject matter. The book is aimed clearly at the needs of the student, with a thorough understanding of, and provision for, the potential conceptual difficulties he or she is likely to encounter. The book's success in achieving these goals is reflected in the opinion of one reviewer who says, "Sykes remains the bible of mechanistic organic chemistry for thousands of undergraduates, and there is certainly no English language publication of which I am aware which comes even close to challenging it in terms of clarity and coverage."

FEATURES

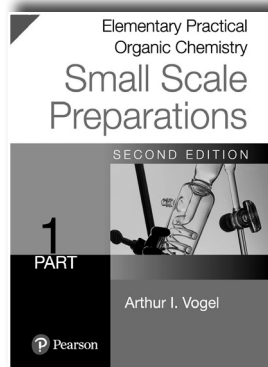
- New – topics introduced in this edition : ipso aromatic substitution; the mechanistic borderline in nucleophilic substitution; more use of activation parameters; Dimorth's ET parameter; Hammett's \tilde{A}^3x and spectroscopic data; and ^{13}C n.m.r. in biogenesis.
- New – thoroughly revised text with improved explanations, more examples and increased clarity.

CONTENTS

1. Structure, Reactivity, and Mechanism.
2. Energetics, Kinetics, and the Investigation of Mechanism.
3. The Strengths of Acids and Bases.
4. Nucleophilic Substitution at a Saturated Carbon Atom.
5. Carbocations, Electron-deficient N and O Atoms and Their Reactions.
6. Electrophilic and Nucleophilic Substitution in Aromatic Systems.
7. Electrophilic and Nucleophilic Addition to C=C.
8. Nucleophilic Addition to C=O.
9. Elimination Reactions.
10. Carbanions and Their Reactions.
11. Radicals and Their Reactions.
12. Symmetry Controlled Reactions.
13. Linear Free Energy Relationships.

ABOUT THE AUTHOR

Peter Sykes, Christ's College, Cambridge



ISBN: 9788131756867

Elementary Practical Organic Chemistry: Small Scale Preparations Part 1, 2/e

 **Arthur I. Vogel**

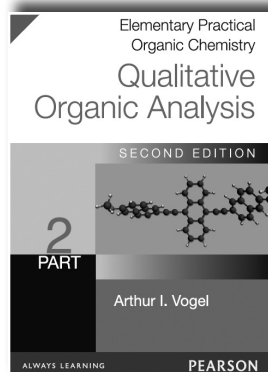
 **456** | © **2010**

FEATURES

- Experimental Techniques
- Mechanism of all reactions described
- Introduction of a number of reactions and experimental procedures of general interest

CONTENTS

1. Theory of General Technique
2. Experimental Technique
3. Aliphatic Compounds
4. Aromatic Compounds
5. Miscellaneous Compounds and Miscellaneous Reactions



ISBN: 9788131756874

Elementary Practical Organic Chemistry: Qualitative Organic Analysis Part 2, 2/e

 **Arthur I. Vogel**

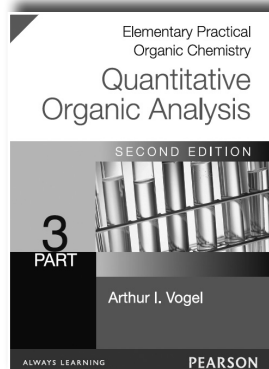
 **448** | © **2010**

ABOUT THE BOOK

A dedicated chapter on "The use of spectroscopic methods in qualitative organic analysis" which includes the essentials from a practical viewpoint of ultraviolet and visible spectroscopy and infrared spectroscopy and mass spectroscopy. These spectroscopy techniques are now-days of such great importance that no book on qualitative organic analysis can be regarded complete without their inclusion.

CONTENTS

1. Determination of physical constants
2. Qualitative analysis for the elements
3. The solubility classes
4. Reactions and characterization of selected classes of organic compounds
5. Class reactions
6. The preparation of derivatives
7. Qualitative analysis of mixtures of organic compounds
8. The use of spectroscopic methods in qualitative organic analysis
9. Physical constants of organic compounds



ISBN: 9788131756881

5. Hydroxyl groups (Phenols)
6. Amino groups
7. Salts of amines
8. Amino acids
9. Carboxyl groups
10. Salts of carboxylic acids
11. Anhydrides of carboxylic acids
12. Esters of carboxylic acids
13. Aldehydes and ketones
14. Carbohydrates (Sugars)
15. Nitro, Nitrates and azo groups

Elementary Practical Organic Chemistry: Quantitative Organic Analysis Part 3, 2/e

 **Arthur I. Vogel**

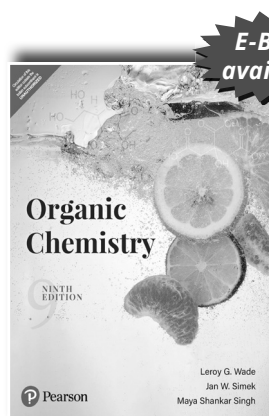
 **382 | © 2010**

FEATURES

- Numerous Experiments
- Coverage of quantitative organic analysis through the medium of functional groups

CONTENTS

1. Determination of selected elements in organic compounds
2. General discussion of titrations in non-aqueous solvents
3. Hydroxyl groups (Alcohols)
4. Adjacent hydroxyl groups
16. Unsaturation
17. Alkoxy groups
18. C-Methyl, O-acetyl and N-acetyl groups
19. Active Hydrogen
20. Enols
21. Imides
22. Sulphonamides, Thiols, Sulphides and disulphides
23. Determination using ION exchange resins
24. Some application of the karl fischer reagent
25. Alpha-epoxy groups
26. Miscellaneous determinations



ISBN: 9789389342673

Organic Chemistry, 9/e

 **Leroy G. Wade, Jr. | Jan William Simek | Maya Shankar Singh**

 **1578 | © 2020**

ABOUT THE BOOK

Organic Chemistry, Ninth Edition gives students a contemporary overview of organic principles and the tools for organizing and understanding reaction mechanisms and synthetic organic chemistry with unparalleled and highly refined pedagogy. This text presents key principles of organic chemistry in the context of fundamental reasoning and problem solving. Authored to complement how students use a textbook today, new Problem Solving Strategies, Partially Solved Problems, Visual Reaction Guides and Reaction Starbursts encourage students to use the text before class as a primary introduction to organic chemistry as well as a comprehensive

study tool for working problems and/or preparing for exams.

FEATURES

- New chapters on Phenols and Quinones and Asymmetric Synthesis.
- Green Chemistry is emphasized with presentation of less-toxic, and environmentally friendly reagents.
- Enriched and updated treatment of Acid/Base Chemistry, Study of Chemical Reactions, Stereochemistry, Alkyl Halides, Alkenes, Dienes, Alkynes, Thiols, Aromatic Compounds, Amines, and Polymers.

- Over 100 new problems include more synthesis problems and problems based on recent literature.
- Over 80 Mechanism boxes help students understand how specific reactions occur by zooming in on each individual step in detail.
- Updated art throughout to provide consistency and clarity in the text, giving detailed representations of molecular and orbital art.

CONTENTS

Preface

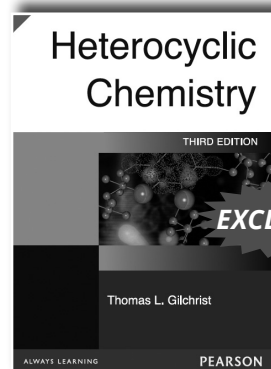
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| <ol style="list-style-type: none"> 1. Introduction to Organic Chemistry 2. Structure and Properties of Organic Molecules: Acids and Bases 3. The Study of Chemical Reactions 4. Structure and Stereochemistry of Alkanes and Cycloalkanes 5. Structure and Synthesis of Alkenes 6. Reactions of Alkenes and Dienes 7. Alkynes 8. Alkyl Halides; Nucleophilic Substitution and Elimination 9. Alcohols and Thiols: Structure and Synthesis 10. Reactions of Alcohols 11. Ethers and Thioethers 12. Stereochemistry 13. Aromatic Compounds 14. Reactions of Aromatic Compounds 15. Ketones and Aldehydes 16. Carboxylic Acids | <ol style="list-style-type: none"> 17. Carboxylic Acid Derivatives 18. Condensations and Alpha Substitutions of Carbonyl Compounds 19. Phenols and Quinones 20. Amines 21. Carbohydrates 22. Amino Acids, Peptides, Proteins and Nucleic Acids 23. Polymeric Materials 24. Asymmetric Synthesis 25. Conjugated Systems, Orbital Symmetry, and Ultraviolet Spectroscopy 26. Infrared Spectroscopy and Mass Spectrometry 27. Nuclear Magnetic Resonance Spectroscopy 28. Lipids <p> Appendices
 Brief Answers to Selected Problems
 Photo Credits
 Index
 Color Illustrations </p> |
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Jan W. Simek, Cal Poly State University

Maya Shankar Singh Department of Chemistry, Institute of Science, Banaras Hindu University



ISBN: 9788131707937

Heterocyclic Chemistry, 3/e

 Thomas L. Gilchrist

 432 | © 2006

ABOUT THE BOOK

This popular text has been completely revised to reflect recent advances in the subject. Deals with the properties of ring systems and general methods of synthesis, providing a unique overview of the subject area. Includes a guide to the naming of the ring systems, invaluable to those unfamiliar with the area.

FEATURES

- Includes recent examples of organometallic reagents which are increasingly used in the synthesis and reactions of heterocyclic compounds.
- New reaction schemes illustrating the use of heterocycles as synthetic intermediates.



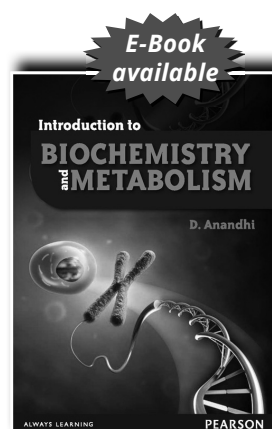
CONTENTS

1. Introduction
2. Aromatic Heterocycles
3. Nonaromatic Heterocycles
4. Methods of Ring Synthesis
5. Six-membered Rings
6. Five-membered Rings with One Heteroatom
7. Six-membered Rings with Two or More Heteroatoms
8. Five-membered Rings with Two or More Heteroatoms
9. Three and Four Membered Rings
10. Seven and Larger Membered Ring Compounds
11. Nomenclature

ABOUT THE AUTHOR(S)

Gary L. Miessler, St. Olaf College
Donald A. Tarr, St. Olaf College

BIOCHEMISTRY



ISBN: 9788131774854

Introduction to Biochemistry and Metabolism



D. Anandhi



416 | © 2014

ABOUT THE BOOK

Designed as per the UGC curriculum, Introduction to Biochemistry and Metabolism meets the syllabus requirements of all universities offering a course on biochemistry and metabolism.

The subject, a core paper for the students of botany, zoology, biotechnology and bioinformatics, is dealt with in detail across 13 chapters with emphasis on the metabolism of amino acids, carbohydrates, lipids and high energy compounds. Replete with illustrations and schematic representations, the book reinforces theoretical concepts with its concise, easy-to-follow approach making it an ideal textbook on the subject.

FEATURES

- Comprehensive coverage of free radicals, antioxidation and proteins.
- Focus on enzymes, fatty acids and their metabolic activities.
- Elucidation of the detoxification mechanism.
- Disseminates information on diseases caused due to enzyme deficiencies.
- 150 illustrations and schematics to help readers understand how biochemical reactions and metabolic pathways work
- Includes laboratory techniques for qualitative and quantitative lipid analysis and estimation of proteins in food samples.

CONTENTS

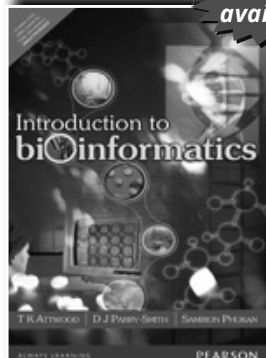
- Preface
1. Chapter 1 Cell
 2. Chapter 2 Carbohydrates
 3. Chapter 3 Amino acids
 4. Chapter 4 Lipids
 5. Chapter 5 Nucleic acid
 6. Chapter 6 Enzymes
 7. Chapter 7 High energy compounds
 8. Chapter 8 Introduction to metabolism
 9. Chapter 9 Amino acid metabolism
 10. Chapter 10 Lipid metabolism
 11. Chapter 11 Nucleotide metabolism
 12. Chapter 12 Detoxication mechanism
 13. Chapter 13 Antibiotics
- Index

ABOUT THE AUTHOR

D Anandhi is from the department of biochemistry, D G Vaishnav College, Chennai.

Introduction to Bioinformatics

 Teresa Attwood | David J. Parry-Smith | Dr Samiron Phukan

 920 | © 2007
E-Book
available

ISBN: 9788177586411

ABOUT THE BOOK

Bioinformatics, the application of computers in the biological sciences, especially analysis of biological sequence data, is becoming an essential tool in molecular biology as genome projects generate vast quantities of data. With new sequences being added to DNA databases on an average of once a minute, there is a pressing need to convert this information into biochemical and biophysical knowledge by deciphering the structural, functional and evolutionary clues encoded in the language of biological sequences.

FEATURES

- Unique guide to bioinformatics linked to an interactive practical on the World Wide Web
- Introduces key databases, tools and resources, and outlines pitfalls of methods
- The Web link integrates conventional and Web-based publishing, allowing interactive exploration of concepts discussed in the book
- Includes numerous Further Reading suggestions, Web references and a useful Glossary

CONTENTS

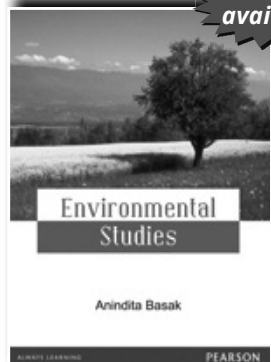
1. Overview
2. Introduction
3. Information networks
4. Protein information resources
5. Genome information resources
6. DNA sequence analysis
7. Pairwise alignment techniques
8. Multiple sequence alignment
9. Secondary database searching
10. Building a sequence search protocol
11. Analysis packages
12. Probability and statistics

ABOUT THE AUTHOR(S)

Dr Teresa K. Attwood is a Royal Society University Research fellow and Senior Lecturer in the School of Biological Sciences, University of Manchester, UK, Visiting Fellow at the European Bioinformatics Institute, and author and curator of the PRINTS protein fingerprint database.

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ISBN: 9788131721186

Environmental Studies

 Anindita Basak

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ABOUT THE BOOK

This book covers the course requirements for **Environmental Studies** for undergraduate students of all disciplines. It aims to educate the readers about nature, ecosystems, natural resources, biodiversity, pollution, and the current challenges faced by environmentalists. It integrates the social impact associated with environmental issues through national and international case studies.

FEATURES

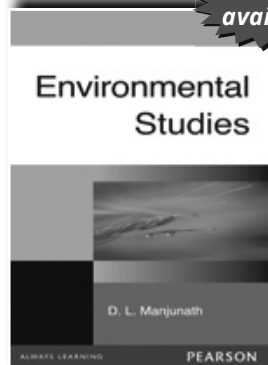
- This book completely follows the UGC model curriculum.
- Discusses current topics in the global environment scenario such as ecological footprint, carbon trading, and emission trading
- Equipped with a complete list of ISO standards for environment management systems
- Entire unit devoted to field work with more than 10 experiments for quantitative evaluation of ecosystems
- Has more than 30 case studies to illustrate environmental issues
- An updated list of international conventions and protocols
- Comprehensive glossary for quick recapitulation of technical terms
- Updated statistical information on air quality standards, permissible exhaust limit, and so on.

CONTENTS

1. Definition, scope and importance, need for public awareness, environment and its components
2. Natural resources: Renewable and non-renewable resources Natural Resources and associated problems
3. Ecosystems
4. Biodiversity and its conservation
5. Environmental pollution
6. Social Issues and the environment
7. Human population and the environment
8. Field work

ABOUT THE AUTHOR(S)

Dr. Anindita Basak is presently Reader in Chemistry at Sushilavati Government Women's College, Rourkela. She was also deputed as a visiting scientist at National Institute of Technology, Rourkela from 2004 to 2006. She has published 16 papers in journals of national and international repute. She has extensive research experience in different fields of chemistry, polymer science, and environmental science.



**E-Book
available**

ISBN: 9788131709122

Environmental Studies

 **D. L. Manjunath**

 **920** | © **2007**

ABOUT THE BOOK

Environmental Studies, focuses in clear and simple language, on the basic scientific content necessary to understand environmental issues. It details the latest developments in the field and reflects several major shifts in environmental science education this century. Designed as a foundational text for environmental science courses and spread over eleven chapters, the book includes various aspects of ecology such as ecosystems, environmental impacts, and current environmental issues.

FEATURES

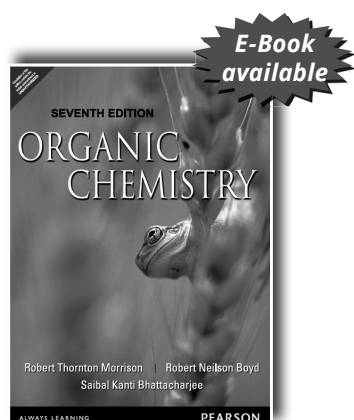
- Pedagogical treatment of the subject to help students grasp fundamentals
- A strong focus on statistical data that illustrates the deterioration of our surroundings, with emphasis on environmental abuse
- Images that portray the current degeneration of our environment

CONTENTS

1. The Earth, Fact File
2. Environment and Ecology
3. Environmental Impacts of Human Activities
4. Water Resources and Water Quality
5. Mineral Resources and Mining
6. Forests
7. Bio-Geo-Chemical Cycles
8. Matter and Energy Fundamentals
9. Environmental Pollution
10. Current Environmental Issues of Importance
11. Environmental Protection

ABOUT THE AUTHOR(S)

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ISBN: 9788131704813

Organic Chemistry, 7/e



Robert Thornton Morrison | Robert Neilson Boyd | Saibal Kanti Bhattacharjee



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ABOUT THE BOOK

As in the earlier editions, the book conveys the important fundamentals and principles of the subject in a simple and easily understandable manner.

CONTENTS

Part 1: Fundamentals of Organic Chemistry

1. Structures of Organic Compounds
2. Structural Theory
3. Symmetry of Organic Molecules (Molecular Dissymmetry)
4. Types of Reactions of Organic Compounds
5. Alkanes, Cycloalkanes and Aromatic Hydrocarbons

Part 2: Chemistry of Functional Groups Alkenes

11. Alkynes
12. Alkyl Halides Nucleophilic Substitutions, S_N Reactions
13. Aryl Halides Nucleophilic Aromatic Substitution (S_NAr Reactions)

18. Functional Derivatives of Carboxylic Acids
Nucleophilic Acyl Substitution

19. Amines

Part 3: Special Topics

20. Heterocyclic Compounds
21. Purification and Identification of Organic Compounds: Spectroscopic Analysis of Organic Compounds
22. Organic Synthesis
23. Oxidation and Reduction Electroorganic Synthesis
24. Molecular Orbitals; Orbital Symmetry (Pericyclic Reactions)
25. Organic Photochemistry
26. Synthetic Organic Compounds of Commercial Importance: Synthetic Dyes and Macromolecules
27. Sympthoria (Anchimeric Assistance) Neighboring Group Effects. Catalysis by Transition Metal Complexes

14. Alcohols and Ethers

15. Phenols

16. Aldehydes and Ketones Nucleophilic Addition

17. Carboxylic Acids

28. Introduction to Supramolecular Chemistry Host-Guest Chemistry

Part 4: (Biomolecules and Bioorganic Chemistry)

29. Lipids Fats, Steroids, Terpenes, and Prostaglandins
30. Carbohydrates I: Monosaccharides. Carbohydrates II: Disaccharides and Polysaccharides
31. Alkaloids
32. Amino Acids and Proteins Molecular Biology
33. Enzymes, Co-Enzymes and Vitamins
34. Nucleic Acids Nucleotides, Polynucleotides and Nucleosides
35. Drugs Chemotherapeutic and Pharmacodynamic Agents

Part 5: Contemporary and Future Organic Chemistry

36. Nanoparticles (Size-Dependent Chemistry)
37. Future Devices and Challenges of Chemistry of this Century Molecular Machines or Nanomachines

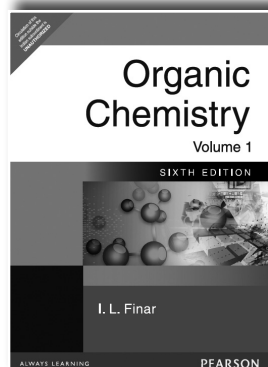
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Organic Chemistry, Volume 1, 6/e



ISBN: 9788177585421

 I. L. Finar

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ABOUT THE BOOK

In the sixth edition of Dr. Finar's best-selling student text, a great deal of material has been rewritten and many new topics have been added. The arrangement of the subject matter is based on homologous series and SI units have been used throughout the text.

CONTENTS

1. Determination of Structure
2. Properties of Molecules
3. Alkanes
4. Alkenes and Alkynes
5. Halogen derivatives of the alkanes
6. Monohydric alcohols
7. Ethers
8. Aldehydes and ketones
9. Saturated monocarboxylic acids and their derivatives
10. Polycarbonyl compounds
11. Polyhydric alcohols
12. Unsaturated alcohols, ethers, carbonyl compounds and acids
13. Nitrogen compounds
14. Aliphatic compounds of sulphur, phosphorus, silicon and boron
15. Organometallic compounds
16. Saturated dicarboxylic acids
17. Hydroxyacids, stereochemistry, unsaturated dicarboxylic acids
18. Carbohydrates
19. Alicyclic compounds
20. Monocyclic aromatic hydrocarbons
21. Aromatic halogen compounds
22. Aromatic nitro-compounds
23. Aromatic amino-compounds
24. Diazonium salts and their related compounds
25. Aromatic sulphonic acids
26. Phenols and quinones
27. Aromatic alcohols, aldehydes and ketones
28. Aromatic acids
29. Polynuclear hydrocarbons and their derivatives
30. Heterocyclic compounds
31. Dyes and photochemistry

ABOUT THE AUTHOR

The late Dr. Finar was Principal Lecturer in Organic Chemistry at the Polytechnic of North London.

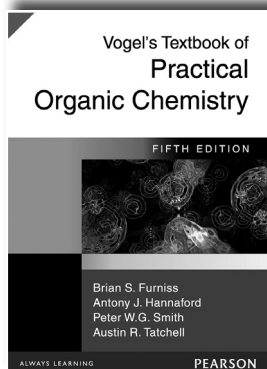
Vogel's Textbook of Practical Organic Chemistry, 5/e



Brian S. Furniss | Antony J. Hannaford | Peter W.G. Smith | Austin R. Tatchell



1544 | © 2006



ISBN: 9788177589573

ABOUT THE BOOK

Still recognized as the definitive text on practical topics related to organic chemistry, this text is relied upon by undergraduates, postgraduate students, and professional organic chemists. Topics covered include the structural and theoretical principles required when designing a synthesis; the disconnection or synthon approach; the principles of retrosynthetic analysis applied to relevant aliphatic, aromatic, alicyclic and heterocyclic compounds; and developments in reaction techniques.

FEATURES

- An introductory chapter on the structural and theoretical principles required when designing a synthesis.
- The disconnection on synthon approach now integrated into the text, and the principles of retrosynthetic analysis applied to relevant aliphatic, aromatic, alicyclic and heterocyclic compounds.
- Synthesis methodology is expanded to cover a range of new reagents, including oxidants and reductants; reagents for asymmetric synthesis; and those derived from lithium, boron, silicon, phosphorous and sulphur.
- Recent developments in reaction techniques which include: handling of air-sensitive and moisture-sensitive compounds; new chromatographic procedures; phase transfer catalysis; and solid support reagents.
- Over 100 new experiments selected from the literature to illustrate new reagents and techniques, and the operation of protection, selectivity and control in synthesis.
- A more detailed treatment of carbon-13 n.m.r. spectroscopy, and the interpretation of spectroscopic data for many of synthesized compounds.

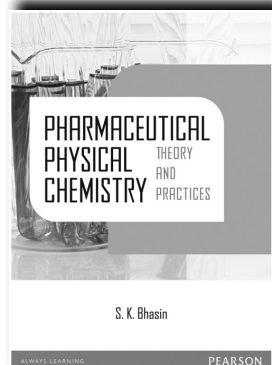
CONTENTS

1. Organic Synthesis.
2. Experimental Techniques.
3. Spectroscopic Methods and the Interpretation of Spectra.
4. Solvents and Reagents.
5. Aliphatic Compounds.
6. Aromatic Compounds.
7. Selected Alicyclic Compounds.
8. Selected Heterocyclic Compounds.
9. Investigation and Characterization of Organic Compounds.
10. Physical Constants of Organic Compounds.

Pharmaceutical Physical Chemistry : Theory and Practices

 **Dr S K Bhasin**

 **920** | © **2012**



ISBN: 9788131765272

ABOUT THE BOOK

Physical Chemistry is a compulsory paper offered to all the students of Pharmacy. There is a dearth of good books that exclusively cover the syllabi of physical chemistry offered to pharmacy courses. Pharmaceutical Physical Chemistry has been designed considering their requirements laid down by AICTE and other premier institutes/universities. Apart from the theory 20 most common laboratory experiments have been included to make this book a unique offering to the students of pharmacy.

FEATURES

- 20 Most common laboratory experiments
- 350 Review questions
- 125 Solved problems
- 280 MCQs
- 152 Line Diagrams
- 35 Tables

CONTENTS

Preface

Part A

- | | |
|-----------------------------|--|
| 1. Behaviour of Gases | 9. Ionic Equilibria |
| 2. The Liquid state | 10. Distribution Law |
| 3. Solution | 11. Electrochemistry |
| 4. Thermodynamic | 12. Electromotive Force and Oxidation-Reduction System |
| 5. Adsorption and Catalysis | 13. Solid State (Crystalline State) |
| 6. Photochemistry | 14. Chemical Bonding |
| 7. Chemical Kinetics | 15. Phase Equilibria |
| 8. Quantum Mechanics | |

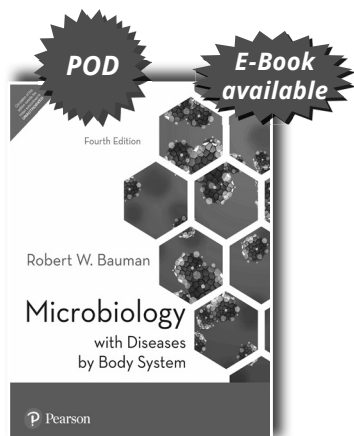
Part B

16. Experiments

Index

ABOUT THE AUTHOR

Dr S K Bhasin is the Director and Professor of Chemistry at Himalayan Group of Professional institute, Kala Amb, Ambala, Haryana. He has been teaching undergraduate and postgraduate students for more than 40 years.



ISBN: 9789332587441

Microbiology with Diseases by Body System, 4/e

 Robert W. Bauman

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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

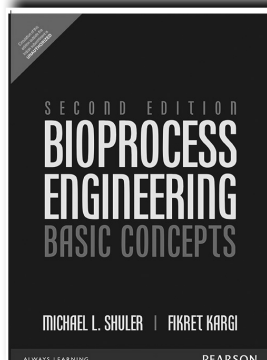
ABOUT THE AUTHOR

Robert W. Bauman, Amarillo College

Bioprocess Engineering: Basic Concepts, 2/e

 **Michael L. Shuler**

 **984** | © **2015**



ISBN: 9789332549371

ABOUT THE BOOK

This is the definitive, up-to-the-minute guide to systems management for every IT professional responsible for maintaining stable, responsive IT production environments. Top IT system management expert Rich Schiesser illuminates both the theoretical and practical aspects of systems management, using methods and examples drawn from decades of professional experience in roles ranging from data center leadership to infrastructure design. Schiesser covers every systems management discipline, every type of IT environment, and all elements of success: technology, processes, and people. This edition adds detailed new coverage of the popular IT Infrastructure Library, showing

how ITIL's 10 processes align with the 12 processes Schiesser presents. Another new chapter addresses key issues related to ethics, legislation, and outsourcing. Additional new coverage ranges from managing wireless networks, VoIP, and "ultra-speed" Internet to strategic security and new approaches to facilities management

FEATURES

- **NEW** - Concepts of validation and Good Manufacturing Practice (GMP) are introduced.
 - Helps students to better understand regulatory constraints on bioprocess development.
- **NEW** - Updated coverage of concepts.
 - Shows students the connection between traditional ideas and emerging areas, such as tissue engineering and gene therapy.
- **NEW** - Material on functional genomics and cellular engineering.
 - Provides students with new developments in biology as they impact bioprocess engineering.
- **NEW** - Expanded discussion of modeling approach.
 - Presents students with a clarified section on models in continuous cultures and adds cybernetic modeling.
- **NEW** - Expanded coverage of chromatography.
 - Introduces students to discussions of IMAC (immobilized metal affinity chromatography), use of fusion proteins, and porous supports.
- **NEW** - Expanded sections on metabolic engineering, animal cell culture, and protein processing.
 - Offers students information on analysis of metabolic pathways, bioreactor considerations for animal cells, and includes some recent examples.
- **NEW** - Additional examples and homework problems, e.g., on topics such as enzyme reaction; reactor operation and scale-up; purification; waste treatment; and genetically engineered cells.
 - Enables students to more thoroughly test their understanding of applied concepts.
- **NEW** - Reorganized coverage.
 - Gives students a more logical presentation of genetic instability, strategies for genetic engineering, and then an approach to selection of host expression system for production of a heterologous protein.
- **Emphasis on novel bioprocessing technologies.**
 - Provides students with discussions on metabolic pathways and regulation, bioreactors, and separation processes.
- **Coverage on production of proteins from recombinant DNA technology.**
 - Allows students to critically compare and evaluate the various techniques involved.
- **Applications**—To special systems and the particular characteristics of mixed cultures; genetically engineered cells; and plant and animal cells.



- Reinforces the previously covered engineering and biological concepts while providing more detailed information about important new biological systems.
- Chapter-end suggested readings.
 - Encourages students to obtain a more in-depth understanding of key biological

CONTENTS

I. INTRODUCTION.

1. What is a Bioprocess Engineer?

Introductory Remarks. Biotechnology and Bioprocess Engineering. Biologists and Engineers Differ in Their Approach to Research. The Story of Penicillin: How Biologists and Engineers Work Together. Bioprocesses: Regulatory Constraints. Suggestions for Further Reading. Problems.

II. THE BASICS OF BIOLOGY: AN ENGINEER'S PERSPECTIVE.

2. An Overview of Biological Basics.

Are All Cells the Same? Cell Construction. Cell Nutrients. Summary. Suggestions for Further Reading. Problems.

3. Enzymes.

Introduction. How Enzymes Work. Enzyme Kinetics. Immobilized Enzyme Systems. Large-scale Production of Enzymes. Medical and Industrial Utilization of Enzymes. Summary. Suggestions for Further Reading. Problems.

4. How Cells Work.

Introduction. The Central Dogma. DNA Replication: Preserving and Propagating the Cellular Message. Transcription: Sending the Message. Translation: Message to Product. Metabolic Regulation. How the Cell Senses Its Extracellular Environment. Summary. Appendix: Examples of Regulation of Complex Pathways. Suggestions for Further Reading. Problems.

5. Major Metabolic Pathways.

Introduction. Bioenergetics. Glucose Metabolism: Glycolysis and the TCA Cycle. Respiration. Control Sites in Aerobic Glucose Metabolism. Metabolism of Nitrogenous Compounds. Nitrogen Fixation. Metabolism of Hydrocarbons. Overview of Biosynthesis. Overview of Anaerobic Metabolism. Overview of Autotrophic Metabolism. Summary. Suggestions for Further Reading. Problems.

6. How Cells Grow.

Introduction. Batch Growth. Quantifying Growth Kinetics. How Cells Grow in Continuous Culture. Summary. Suggestions for Further Reading. Problems.

7. Stoichiometry of Microbial Growth and Product Formation.

Introduction. Some Other Definitions. Stoichiometric Calculations. Theoretical Predictions of Yield Coefficients. Summary. Suggestions for Further Reading. Problems.

8. How Cellular Information is Altered.

Introduction. Evolving Desirable Biochemical Activities through Mutation and Selection. Natural Mechanisms for Gene Transfer and Rearrangement. Genetically Engineering Cells. Genomics. Summary. Suggestions for Further Reading. Problems.

III. ENGINEERING PRINCIPLES FOR BIOPROCESSES.

9. Operating Considerations for Bioreactors for Suspension and Immobilized Cultures.

Introduction. Choosing the Cultivation Method. Modifying Batch and Continuous Reactors. Immobilized Cell Systems. Solid-state Fermentations. Summary. Suggestions for Further Reading. Problems.

10. Selection, Scale-Up, Operation, and Control of Bioreactors.

Introduction. Scale-up and Its Difficulties. Bioreactor Instrumentation and Control. Sterilization of Process Fluids. Summary. Suggestions for Further Reading. Problems.

11. Recovery and Purification of Products.

Strategies to Recover and Purify Products. Separation of Insoluble Products. Cell Disruption. Separation of Soluble Products. Finishing Steps for Purification. Integration of Reaction and Separation. Summary. Suggestions for Further Reading. Problems.

IV. APPLICATIONS TO NONCONVENTIONAL BIOLOGICAL SYSTEMS.

12. Bioprocess Considerations in Using Animal Cell Cultures.

Structure and Biochemistry of Animal Cells. Methods Used for the Cultivation of Animal Cells. Bioreactor Considerations for Animal Cell Culture. Products of Animal Cell Cultures. Summary. Suggestions for Further Reading. Problems.

13. Bioprocess Considerations in Using Plant Cell Cultures.

Why Plant Cell Cultures? Plant Cells in Culture Compared to Microbes. Bioreactor Considerations. Economics of Plant Cell Tissue Cultures. Summary. Suggestions for Further Reading. Problems. ➔

14. Utilizing Genetically Engineered Organisms.

Introduction. How the Product Influences Process Decisions. Guidelines for Choosing Host-Vector Systems. Process Constraints: Genetic Instability. Considerations in Plasmid Design to Avoid Process Problems. Predicting Host-Vector Interactions and Genetic Instability. Regulatory Constraints on Genetic Processes. Metabolic Engineering. Protein Engineering. Summary. Suggestions for Further Reading. Problems.

15. Medical Applications of Bioprocess Engineering.

Introduction. Tissue Engineering. Gene Therapy Using Viral Vectors. Bioreactors. Summary. Suggestions for Further Reading. Problems.

16. Mixed Cultures.

Introduction. Major Classes of Interactions in Mixed Cultures. Simple Models Describing Mixed-culture Interactions. Mixed Cultures in Nature. Industrial Utilization of Mixed Cultures. Biological Waste Treatment: An Example of the Industrial Utilization of Mixed Cultures. Summary. Suggestions for Further Reading. Problems.

17. Epilogue.

Appendix: Traditional Industrial Bioprocesses.

Anaerobic Bioprocesses. Aerobic Processes.

Suggestions for Further Reading.

ABOUT THE AUTHOR(S)

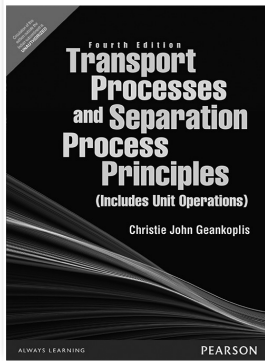
DR. MICHAEL L. SHULER is Professor in the School of Chemical Engineering, Cornell University. His areas of research include structured models, heterologous protein expression systems, cell culture analogs for pharmacokinetic models, in-vitro toxicology, plant-cell tissue culture, microbial functional genomics, and bioremediation.

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Transport Processes and Separation Process Principles (Includes Unit Operations)

 **Christie John Geankoplis**

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ISBN: 9789332549432

ABOUT THE BOOK

Appropriate for one-year transport phenomena (also called transport processes) and separation processes course. First semester covers fluid mechanics, heat and mass transfer second semester covers separation process principles (includes unit operations).

The title of this Fourth Edition has been changed from Transport Processes and Unit Operations to Transport Processes and Separation Process Principles (Includes Unit Operations). This was done because the term Unit Operations has been largely superseded by the term Separation Processes which better reflects the present

modern nomenclature being used. The main objectives and the format of the Fourth Edition remain the same. The sections on momentum transfer have been greatly expanded, especially in the sections on fluidized beds, flow meters, mixing, and non-Newtonian fluids. Material has been added to the chapter on mass transfer. The chapters on absorption, distillation, and liquid-liquid extraction have also been enlarged. More new material has been added to the sections on ion exchange and crystallization. The chapter on membrane separation processes has been greatly expanded especially for gas-membrane theory.

FEATURES

- The comprehensive, unified, up-to-date guide to transport and separation processes.
- A more thorough coverage of momentum, heat, and mass transport processes and new coverage of separation process applications.
- Greatly expanded coverage of momentum transfer, including fluidized beds and non-Newtonian fluids.
- More detailed discussions of mass transfer, absorption, distillation, liquid-liquid extraction, and crystallization.

CONTENTS

Preface.


I. TRANSPORT PROCESSES: MOMENTUM, HEAT, AND MASS.

1. Introduction to Engineering Principles and Units.
2. Principles of Momentum Transfer and Overall Balances.
3. Principles of Momentum Transfer and Applications.
4. Principles of Steady-State Heat Transfer.
5. Principles of Unsteady-State Heat Transfer.
6. Principles of Mass Transfer.
7. Principles of Unsteady-State and Convective Mass Transfer.

II. SEPARATION PROCESS PRINCIPLES (INCLUDES UNIT OPERATIONS).

8. Evaporation.
9. Drying of Process Materials.
10. Stage and Continuous Gas-Liquid Separation Processes.
11. Vapor-Liquid Separation Processes.
12. Liquid-Liquid and Fluid-Solid Separation Processes.
13. Membrane Separation Processes.
14. Mechanical-Physical Separation Processes.





Appendices.

Appendix A.1. Fundamental Constants and Conversion Factors.

Appendix A.2. Physical Properties of Water.

Appendix A.3. Physical Properties of Inorganic and Organic Compounds.

Appendix A.4. Physical Properties of Foods and Biological Materials.

Appendix A.5. Properties of Pipes, Tubes, and Screens.

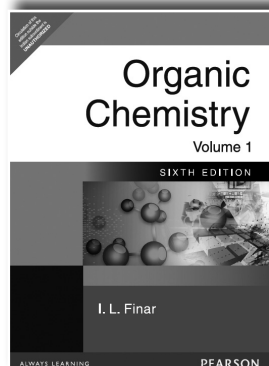
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CHRISTIE JOHN GEANKOPLIS is a Professor of Chemical Engineering and Materials Science at the University of Minnesota. His current research interests involve transport processes, biochemical reactor engineering, mass transfer in liquid solutions, and diffusion and/or reaction in porous solids. He holds a Ph.D. in Chemical Engineering from the University of Pennsylvania.

Organic Chemistry, Volume 1, 6/e

 I. L. Finar

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ISBN: 9788177585421

ABOUT THE BOOK

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17. Hydroxyacids, stereochemistry, unsaturated dicarboxylic acids
18. Carbohydrates
19. Alicyclic compounds
20. Monocyclic aromatic hydrocarbons
21. Aromatic halogen compounds
22. Aromatic nitro-compounds
23. Aromatic amino-compounds
24. Diazonium salts and their related compounds
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26. Phenols and quinones
27. Aromatic alcohols, aldehydes and ketones
28. Aromatic acids
29. Polynuclear hydrocarbons and their derivatives
30. Heterocyclic compounds
31. Dyes and photochemistry

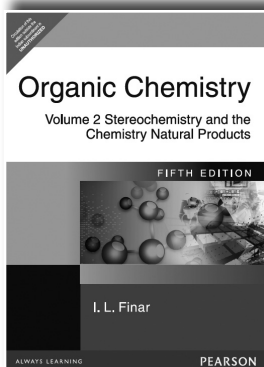
ABOUT THE AUTHOR

The late **Dr. Finar** was Principal Lecturer in Organic Chemistry at the Polytechnic of North London.

Organic Chemistry, Volume 2: Stereochemistry and the Chemistry Natural Products, 5/e

 I. L. Finar

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ISBN: 9788177585414

ABOUT THE BOOK

Organic Chemistry is a well-established two-volume textbook for students studying chemistry at degree level. Volume 2 carries the material of Volume 1: Fundamental Principles to a more advanced level. The author provides a comprehensive introduction to the relationship between physical properties and chemical structures, and then proceeds to a detailed account of stereochemistry. The later chapters are devoted to the most typical compounds of natural products and the problems involved. A selected number of reading references are given at the end of each chapter.

CONTENTS

1. Physical properties and chemical constitution
2. Optical isomerism
3. Nucleophilic substitution at a saturated carbon atom, asymmetric synthesis
4. Geometrical isomerism, stereochemistry of alicyclic compounds
5. Stereochemistry of biphenyl compounds
6. Stereochemistry of some elements other than carbon
7. Carbohydrates
8. Terpenoids
9. Carotenoids
10. Polycyclic aromatic hydrocarbons
11. Steroids
12. Heterocyclic compounds containing two or more hetero-atoms
13. Amino-acids and proteins
14. Alkaloids
15. Anthocyanins
16. Purines and nucleic acids
17. Vitamins
18. Chemotherapy
19. Haemoglobin, chlorophyll and phthalocyanines

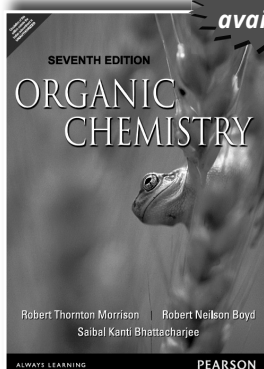
ABOUT THE AUTHOR

The late Dr. Finar was Principal Lecturer in Organic Chemistry at the Polytechnic of North London.

Organic Chemistry, 7/e

 Robert Thornton Morrison | Robert Neilson Boyd | Saibal Kanti Bhattacharjee

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ISBN: 9788131704813

ABOUT THE BOOK

As in the earlier editions, the book conveys the important fundamentals and principles of the subject in a simple and easily understandable manner.

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Part 2: Chemistry of Functional Groups Alkenes

11. Alkynes
12. Alkyl Halides Nucleophilic Substitutions, SN Reactions
13. Aryl Halides Nucleophilic Aromatic Substitution (SNAr Reactions)
14. Alcohols and Ethers
15. Phenols
16. Aldehydes and Ketones Nucleophilic Addition
17. Carboxylic Acids
18. Functional Derivatives of Carboxylic Acids Nucleophilic Acyl Substitution
19. Amines

Part 3: Special Topics

20. Heterocyclic Compounds
21. Purification and Identification of Organic Compounds: Spectroscopic Analysis of Organic Compounds
22. Organic Synthesis
23. Oxidation and Reduction Electroorganic Synthesis
24. Molecular Orbitals; Orbital Symmetry (Pericyclic Reactions)
25. Organic Photochemistry

26. Synthetic Organic Compounds of Commercial Importance: Synthetic Dyes and Macromolecules
27. Symphoria (Anchimeric Assistance) Neighboring Group Effects. Catalysis by Transition Metal Complexes
28. Introduction to Supramolecular Chemistry Host-Guest Chemistry

Part 4: (Biomolecules and Bioorganic Chemistry)

29. Lipids Fats, Steroids, Terpenes, and Prostaglandins
30. Carbohydrates I: Monosaccharides. Carbohydrates II: Disaccharides and Polysaccharides
31. Alkaloids
32. Amino Acids and Proteins Molecular Biology
33. Enzymes, Co-Enzymes and Vitamins
34. Nucleic Acids Nucleotides, Polynucleotides and Nucleosides
35. Drugs Chemotherapeutic and Pharmacodynamic Agents

Part 5: Contemporary and Future Organic Chemistry

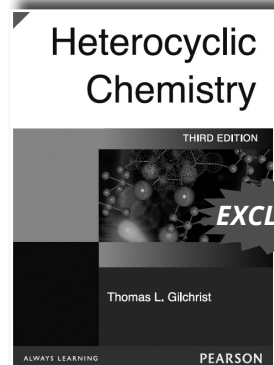
36. Nanoparticles (Size-Dependent Chemistry)
37. Future Devices and Challenges of Chemistry of this Century Molecular Machines or Nanomachines

ABOUT THE AUTHOR(S)

Robert Thornton Morrison, New York University

Robert Neilson Boyd, New York University

Saibal Kanti Bhattacharjee, Gauhati University



ISBN: 9788131707937

Heterocyclic Chemistry, 3/e

 Thomas L. Gilchrist

 432 | © 2006

ABOUT THE BOOK

This popular text has been completely revised to reflect recent advances in the subject. Deals with the properties of ring systems and general methods of synthesis, providing a unique overview of the subject area. Includes a guide to the naming of the ring systems, invaluable to those unfamiliar with the area.

FEATURES

- Includes recent examples of organometallic reagents which are increasingly used in the synthesis and reactions of heterocyclic compounds.
- New reaction schemes illustrating the use of heterocycles as synthetic intermediates.



CONTENTS

1. Introduction
2. Aromatic Heterocycles
3. Nonaromatic Heterocycles
4. Methods of Ring Synthesis
5. Six-membered Rings
6. Five-membered Rings with One Heteroatom
7. Six-membered Rings with Two or More Heteroatoms
8. Five-membered Rings with Two or More Heteroatoms
9. Three and Four Membered Rings
10. Seven and Larger Membered Ring Compounds
11. Nomenclature

ABOUT THE AUTHOR(S)

Gary L. Miessler, St. Olaf College

Donald A. Tarr, St. Olaf College



**E-Book
available**

ISBN: 9788131731444

Medicinal Chemistry 2/e

 **Sriram | Yogeewari**

 **712 | © 2010**



ABOUT THE BOOK

The second edition of Medicinal Chemistry is based on the core module of Pharmacy syllabi of various technical universities, and targets undergraduate B.Pharma students across India.

The current edition has been designed by authors based on the opinion of the experts to include the latest developments in the field of medicinal chemistry, detailed synthesis mechanism of the drugs and their mode of action inside the body.

FEATURES

- Complex reactions broken down into intermediary steps
- A variety of exercises to test the cognitive level of students
- New pedagogical features:
 - Learning objectives
 - Further Reading guidelines
 - Coloured illustrations
 - Data tables
- New chapters on drug design and development, principles of drug action, CADD and a chapter on miscellaneous drugs

CONTENTS

- | | | |
|--|---|---|
| 1. Drug Discovery and Development | 13. Miscellaneous CNS Agents | 25. Inhibitors |
| 2. Principles of Drug Action | 14. Antihistamines and Anti-Ulcer Agents | 26. Quinolone Antibacterials |
| 3. Drug Metabolism and Prodrugs | 15. Diuretics | 27. Antibiotics |
| 4. Computer-aided Drug Design | 16. Antihypertensive Agents | 28. Antitubercular Agents |
| 5. General Anaesthetics | 17. Antiarrhythmic Drugs | 29. Antifungal Agents |
| 6. Local Anaesthetics | 18. Antihyperlipidemic Agents | 30. Antiviral Agents |
| 7. Sedatives, Hypnotics, and Anxiolytic Agents | 19. Antianginal Drugs | 31. Antiprotozoal Agents |
| 8. Anti-Epileptic Drugs | 20. Insulin and Oral Hypoglycaemic Agents | 32. Anticancer Agents |
| 9. Antipsychotic Agents | 21. Oral Anticoagulants | 33. Prostaglandins |
| 10. Antidepressants | 22. Adrenergic Drugs | 34. Steroids |
| 11. Narcotic Analgesics | 23. Cholinergic Drugs | 35. Miscellaneous Agents |
| 12. Antipyretics and Non-Steroidal Anti-Inflammatory Drugs | 24. Sulphonamides, Sulphones, and Dihydrofolate | 36. Nomenclature of Medicinal Compounds |

ABOUT THE AUTHOR(S)

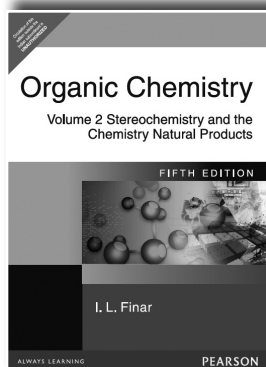
D. Sriram is presently Senior Professor at Pharmacy Group, Birla Institute of Technology and Science-Pilani, Hyderabad Campus. He received his Ph.D. in 2000 from Banaras Hindu University, Varanasi.

P. Yogeewari is presently Senior Professor at Pharmacy Group, Birla Institute of Technology and Science-Pilani, Hyderabad Campus. She received her Ph.D. degree in 2001 from Banaras Hindu University, Varanasi.

Organic Chemistry, Volume 2: Stereochemistry and the Chemistry Natural Products, 5/e

 I. L. Finar

 956 | © 2005



ISBN: 9788177585414

ABOUT THE BOOK

Organic Chemistry is a well-established two-volume textbook for students studying chemistry at degree level. Volume 2 carries the material of Volume 1: Fundamental Principles to a more advanced level. The author provides a comprehensive introduction to the relationship between physical properties and chemical structures, and then proceeds to a detailed account of stereochemistry. The later chapters are devoted to the most typical compounds of natural products and the problems involved. A selected number of reading references are given at the end of each chapter.

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5. Stereochemistry of biphenyl compounds
6. Stereochemistry of some elements other than carbon
7. Carbohydrates
8. Terpenoids
9. Carotenoids
10. Polycyclic aromatic hydrocarbons
11. Steroids
12. Heterocyclic compounds containing two or more hetero-atoms
13. Amino-acids and proteins
14. Alkaloids
15. Anthocyanins
16. Purines and nucleic acids
17. Vitamins
18. Chemotherapy
19. Haemoglobin, chlorophyll and phthalocyanines

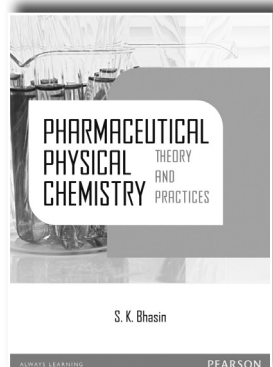
ABOUT THE AUTHOR

The late Dr. Finar was Principal Lecturer in Organic Chemistry at the Polytechnic of North London.

Pharmaceutical Physical Chemistry : Theory and Practices

 **Dr S K Bhasin**

 **956** | © **2012**



ISBN: 9788131765272

ABOUT THE BOOK

Physical Chemistry is a compulsory paper offered to all the students of Pharmacy. There is a dearth of good books that exclusively cover the syllabi of physical chemistry offered to pharmacy courses. Pharmaceutical Physical Chemistry has been designed considering their requirements laid down by AICTE and other premier institutes/universities. Apart from the theory 20 most common laboratory experiments have been included to make this book a unique offering to the students of pharmacy.

FEATURES

- 20 Most common laboratory experiments
- 350 Review questions
- 125 Solved problems
- 280 MCQs
- 152 Line Diagrams
- 35 Tables

CONTENTS

Part A

1. Behaviour of Gases
2. The Liquid state
3. Solution
4. Thermodynamic
5. Adsorption and Catalysis
6. Photochemistry

7. Chemical Kinetics
8. Quantum Mechanics
9. Ionic Equilibria
10. Distribution Law
11. Electrochemistry
12. Electromotive Force and Oxidation-Reduction System

13. Solid State (Crystalline State)
14. Chemical Bonding
15. Phase Equilibria

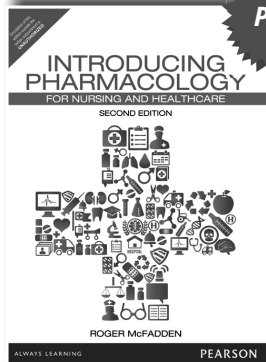
Part B

16. Experiments

ABOUT THE AUTHOR

Dr S K Bhasin is the Director and Professor of Chemistry at Himalayan Group of Professional institute, Kala Amb, Ambala, Haryana. He has been teaching undergraduate and postgraduate students for more than 40 years.

Introducing Pharmacology: For Nursing and Healthcare, 2/e



POD

ISBN: 9789332517295

 **Roger McFadden**

 368 | © 2014

ABOUT THE BOOK

This new edition of *Introducing Pharmacology* remains an accessible and relevant introduction for nursing and healthcare students who are new to pharmacology, as well as anyone looking to refresh their knowledge of the subject.

Focused and engaging, the text balances accessibility with depth. Coverage of anatomy and physiology as well as pathophysiology helps to relate the subject to practical realities and makes this text stand out.

FEATURES

- Extend coverage of the pharmacopoeia with a completely new chapter on anti-cancer drugs.
- New sections, including general anaesthetics, hay-fever and prescribing for special groups such as children, pregnant women and the elderly.
- Fully updated with the Recommended International Non-proprietary Names (rINN) for drugs as used in the British National Formulary.
- Inclusion of a new glossary of key terms and definitions.

CONTENTS

Part 1 Principles of pharmacology

1. Let's start at basics: cells and how they work
2. Protein targets for drugs
3. Side-effects, interactions and pharmacokinetics

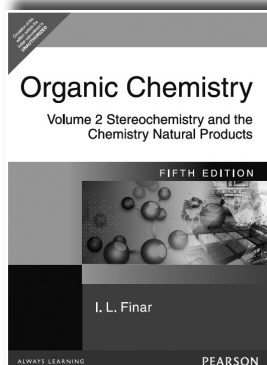
Part 2 The major drug groups

4. The cardiovascular system I: drugs used in the management of coronary artery disease
5. The cardiovascular system II: hypertension and antihypertensive drugs

6. Inflammation and the management of pain
7. Disorders and drugs of the digestive system
8. Infection and anti-microbial drugs
9. Disorders and drugs of the respiratory system
10. Disorders and drugs of the endocrine system
11. Drugs used in the treatment of mental health and neurological disorders
12. Drugs used in the treatment of Cancers and Chemotherapy

ABOUT THE AUTHOR

Roger McFadden is Senior Lecturer in Applied Physiology at Birmingham City University



ISBN: 9788177585414

Organic Chemistry, Volume 2: Stereochemistry and the Chemistry Natural Products, 5/e

 I. L. Finar

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ABOUT THE BOOK

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16. Purines and nucleic acids
17. Vitamins
18. Chemotherapy
19. Haemoglobin, chlorophyll and phthalocyanines

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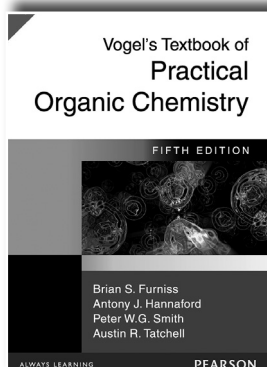
Vogel's Textbook of Practical Organic Chemistry, 5/e

 Brian S. Furniss | Antony J. Hannaford | Peter W.G. Smith | Austin R. Tatchell

 1544 | © 2006

ABOUT THE BOOK

Still recognized as the definitive text on practical topics related to organic chemistry, this text is relied upon by undergraduates, postgraduate students, and professional organic chemists. Topics covered include the structural and theoretical principles required when designing a synthesis; the disconnection or synthon approach; the principles of retrosynthetic analysis applied to relevant aliphatic, aromatic, alicyclic and heterocyclic compounds; and developments in reaction techniques.



ISBN: 9788177589573

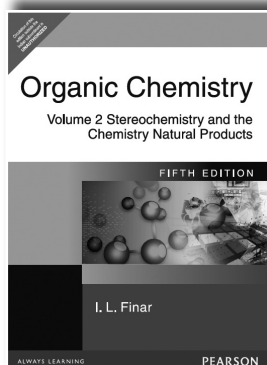


FEATURES

- An introductory chapter on the structural and theoretical principles required when designing a synthesis.
- The disconnection on synthon approach now integrated into the text, and the principles of retrosynthetic analysis applied to relevant aliphatic, aromatic, alicyclic and heterocyclic compounds.
- Synthesis methodology is expanded to cover a range of new reagents, including oxidants and reductants; reagents for asymmetric synthesis; and those derived from lithium, boron, silicon, phosphorous and sulphur.
- Recent developments in reaction techniques which include: handling of air-sensitive and moisture-sensitive compounds; new chromatographic procedures; phase transfer catalysis; and solid support reagents.
- Over 100 new experiments selected from the literature to illustrate new reagents and techniques, and the operation of protection, selectivity and control in synthesis.
- A more detailed treatment of carbon-13 n.m.r. spectroscopy, and the interpretation of spectroscopic data for many of synthesized compounds.

CONTENTS

1. Organic Synthesis.
 2. Experimental Techniques.
 3. Spectroscopic Methods and the Interpretation of Spectra.
 4. Solvents and Reagents.
 5. Aliphatic Compounds.
 6. Aromatic Compounds.
 7. Selected Alicyclic Compounds.
 8. Selected Heterocyclic Compounds.
 9. Investigation and Characterization of Organic Compounds.
 10. Physical Constants of Organic Compounds.
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ISBN: 9788177585414

Organic Chemistry, Volume 2: Stereochemistry and the Chemistry of Natural Products, 5/e

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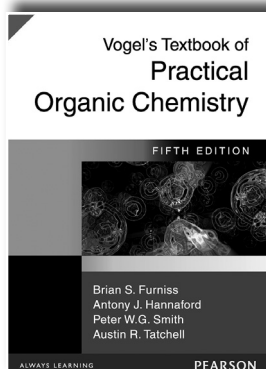
CONTENTS

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| 1. Physical properties and chemical constitution | 10. Polycyclic aromatic hydrocarbons |
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- Over 100 new experiments selected from the literature to illustrate new reagents and techniques, and the operation of protection, selectivity and control in synthesis.
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6. Aromatic Compounds.
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8. Selected Heterocyclic Compounds.
9. Investigation and Characterization of Organic Compounds.
10. Physical Constants of Organic Compounds.

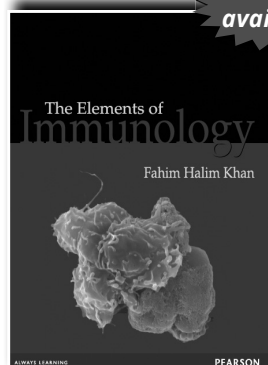
The Elements of Immunology

 Fahim Halim Khan

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E-Book
available



ISBN: 9788131711583

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

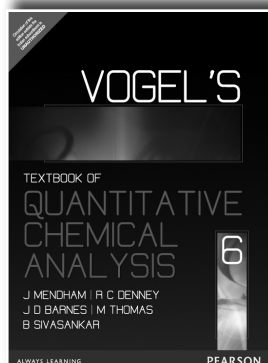
ABOUT THE AUTHOR

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

Vogel's Quantitative Chemical Analysis, 6/e

 **J. Mendham | David J. Barnes | R.C. Denney | M. J. K. Thomas**

 **836 | © 2009**



ISBN: 9788131723258

ABOUT THE BOOK

Dr. Vogel's classic introduction to analytical methods has provided generations of chemists worldwide with a basis for teaching, learning and applying analytical chemistry. This 60th anniversary edition - the first for a decade - reflects major changes in the subject. Analysts need to understand the concepts behind methods and *Vogel's Quantitative Chemical Analysis* provides clear introductions to all the key analytical methods including those involving advanced computerised equipment available in many analytical laboratories. The editors have built further on the work of Dr Vogel, modernising the approach while retaining the analytical concepts and ideas which were built into the original work. This new edition has been extensively revised to take into account developments in instrumental procedures and coupled techniques whilst maintaining the book's focus on quantitative chemical and problem-specific analyses. With excellent cross-referencing this book provides a wealth of examples and tables of data.

FEATURES

- Comprehensive coverage of methods with detailed easy-to-follow practical experiments.
- Basic analytical theory which is essential for understanding the subject.
- Greatly expanded sections on instrumental analysis including aspects of miniaturisation.
- Increased emphasis on minor/trace component analysis and revised statistical handling of data.
- New chapters on sampling, mass spectrometry and nuclear magnetic resonance.

CONTENTS

- | | | |
|---|--|--|
| 1. Preface to First Edition. | 8. Statistics, Introduction to Chemometrics. | 17. Direct Electroanalytical Methods. |
| 2. Preface to Sixth Edition. | 9. Sampling. | 18. Nuclear Magnetic Resonance Spectroscopy. |
| 3. Safety; Units. | 10. The Basis of Separative Methods. | 19. Atomic Absorption Spectroscopy. |
| 4. Reagent Purity. | 11. Thin Layer Chromatography. | 20. Atomic Emission Spectroscopy. |
| 5. Introduction. | 12. Liquid Chromatography. | 21. Molecular Electronic Spectroscopy. |
| 6. Fundamental Theoretical Principles of Reactions in Solution. | 13. Gas Chromatography. | 22. Vibrational Spectroscopy. |
| 7. Common Apparatus & Basic Techniques. | 14. Titrimetric Analysis. | 23. Mass Spectrometry |
| | 15. Gravimetric Analysis. | |
| | 16. Thermal Analysis. | |

ABOUT THE AUTHOR(S)

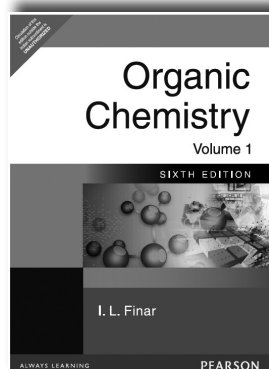
J. Mendham, Consultant Analytical Chemist
R.C. Denney, Consultant Forensic Scientist

J. D. Barnes, University of Greenwich
M.J.K. Thomas, University of Greenwich

Organic Chemistry, Volume 1, 6/e

 I. L. Finar

 966 | © 2005



ISBN: 9788177585421

ABOUT THE BOOK

In the sixth edition of Dr. Finar's best-selling student text, a great deal of material has been rewritten and many new topics have been added. The arrangement of the subject matter is based on homologous series and SI units have been used throughout the text.

CONTENTS

1. Determination of Structure
2. Properties of Molecules
3. Alkanes
4. Alkenes and Alkynes
5. Halogen derivatives of the alkanes
6. Monohydric alcohols
7. Ethers
8. Aldehydes and ketones
9. Saturated monocarboxylic acids and their derivatives
10. Polycarbonyl compounds
11. Polyhydric alcohols
12. Unsaturated alcohols, ethers, carbonyl compounds and acids
13. Nitrogen compounds
14. Aliphatic compounds of sulphur, phosphorus, silicon and boron
15. Organometallic compounds
16. Saturated dicarboxylic acids
17. Hydroxyacids, stereochemistry, unsaturated dicarboxylic acids
18. Carbohydrates
19. Alicyclic compounds
20. Monocyclic aromatic hydrocarbons
21. Aromatic halogen compounds
22. Aromatic nitro-compounds
23. Aromatic amino-compounds
24. Diazonium salts and their related compounds
25. Aromatic sulphonic acids
26. Phenols and quinones
27. Aromatic alcohols, aldehydes and ketones
28. Aromatic acids
29. Polynuclear hydrocarbons and their derivatives
30. Heterocyclic compounds
31. Dyes and photochemistry

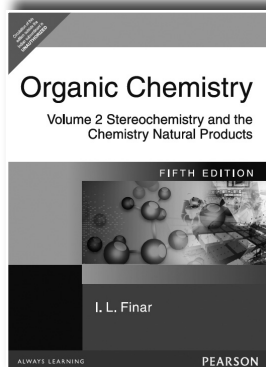
ABOUT THE AUTHOR

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 I. L. Finar

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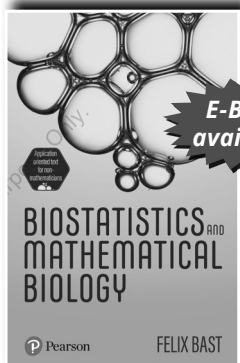
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19. Haemoglobin, chlorophyll and phthalocyanines

ABOUT THE AUTHOR

The late Dr. Finar was Principal Lecturer in Organic Chemistry at the Polytechnic of North London.

Biostatistics and Mathematical Biology



E-Book
available

ISBN: 9789356066267

 Felix Bast

 372 | © 2023

ABOUT THE BOOK

A comprehensive textbook of biostatistics targeted at non-mathematicians at an advanced bachelor level and above.

The book sequentially covers basic mathematics topics essential for biologists, such as scientific methodology, levels of measurement, and explores more advanced concepts, including Bayes Theorem and Non-linear regression, thereby complying with the biostatistics syllabus of various universities as well as competitive examinations. This application oriented book focuses on the decision-making process during statistical tests and graphing, which test/graph to use, how much

would be the minimum sample size, how to interpret the results, and so on. Authored by Prof. Felix Bast, whose course in UGC SWAYAM, “Biostatistics and Mathematical Biology” had been ranked the 7th best MOOC worldwide in 2020”.

FEATURES

- Concise yet comprehensive textbook on the fundamental concepts of statistics.
- Focused on choosing the correct statistical test and interpreting the results.
- Non-mathematical approach; suitable for biologists and medical students.
- Clear-cut recommendations for various statistical tests and their variations.

CONTENTS

20. Introduction to Biostatistics and Mathematical Biology
21. Types of Studies
22. Levels of Measurements
23. Summarizing Data: Tabular Presentation
24. Summarizing Data: Graphical Presentation
25. Charting with Excel
26. Descriptive Statistics: Point Estimates
27. Descriptive Statistics: Interval Estimates
28. Error Bars
29. Moments, Normality Tests and Outliers
30. Concepts of Population, Sample and Confidence Intervals
31. Statistical Hypothesis Testing
32. Statistical Significance and P-Values
33. Relationship between Confidence Intervals and Statistical Significance
34. Statistical Power and Choosing the Right Sample Size
35. t-distribution and Tests of Significance Based on t-distribution
36. F-distribution and Tests of Significance Based on the F-distribution
37. Post-Hoc Tests
38. χ^2 -distribution and Tests of Significance Based on χ^2 -distribution
39. Comparing Proportions
40. Gaussian, Lognormal, Binomial and Poisson Distributions
41. Pearson's Correlation
42. Simple Linear Regression
43. Non-linear Regression, Multiple Regression, and Logistic Regression
44. Non-parametric Tests
45. Permutations and Combinations
46. Probability
47. Likelihood and Bayes' Theorem
48. Key Concepts of Statistics and Statistical Pitfalls to Avoid

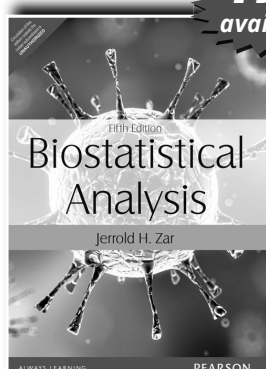
ABOUT THE AUTHOR

Prof. Felix Bast is an award-winning Indian Science Communicator and a public educator working currently as a full Professor at Central University of Punjab, India. He is an expert panelist of Paris-based International Science Council, an elected fellow of Linnean Society of London, and a member of IUCN, Geneva. He holds Ph.D. in Marine Biology from MEXT, Japan (alumnus of Monbukagakusho:MEXT Japanese Govt. international doctoral fellowship), and served as expedition scientist in Indian Antarctic Mission.

Biostatistical Analysis, 5/e

 **Jerrold H. Zar**

 **760** | © **2014**



ISBN: 9789332536678

ABOUT THE BOOK

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

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

FEATURES

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

CONTENTS

- | | | |
|---|---|--|
| 1. Data: Types and Presentations | 8. Two-Sample Hypotheses | Variance |
| 2. Populations and Samples | 9. Paired-Sample Hypotheses | 15. Nested (Hierarchical) Analysis of Variance |
| 3. Measures of Central Tendency | 10. Multisample Hypotheses and the Analysis of Variance | 16. Multivariate Analysis of Variance |
| 4. Measures of Variability and Dispersion | 11. Multiple Comparisons | 17. Simple Linear Regression |
| 5. Probabilities | 12. Two-Factor Analysis of Variance | 18. Comparing Simple Linear Regression Equations |
| 6. The Normal Distribution | 13. Data Transformations | |
| 7. One-Sample Hypotheses | 14. Multiway Factorial Analysis of | |

- 19. Simple Linear Correlation
- 20. Multiple Regression and Correlation
- 21. Polynomial Regression
- 22. Testing for Goodness of Fit
- 23. Contingency Tables

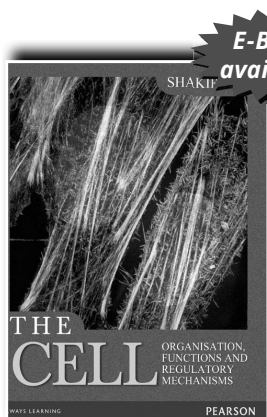
- 24. Dichotomous Variables
- 25. Testing for Randomness
- 26. Circular Distributions: Descriptive Statistics
- 27. Circular Distributions: Hypothesis Testing

- 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.

CELL AND MOLECULAR BIOLOGY



The Cell: Organization, Functions and Regulatory Mechanisms

 **Shakir Ali**

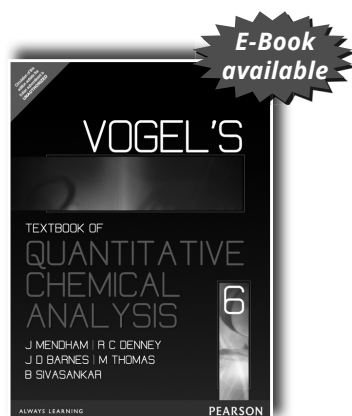
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ISBN: 9788131773284

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.



ISBN: 9788131723258

Vogel's Quantitative Chemical Analysis, 6/e

J. Mendham | David J. Barnes | R.C. Denney | M. J. K. Thomas

836 | © 2009

ABOUT THE BOOK

Dr. Vogel's classic introduction to analytical methods has provided generations of chemists worldwide with a basis for teaching, learning and applying analytical chemistry. This 60th anniversary edition - the first for a decade - reflects major changes in the subject. Analysts need to understand the concepts behind methods and *Vogel's Quantitative Chemical Analysis* provides clear introductions to all the key analytical methods including those involving advanced computerised equipment available in many analytical laboratories. The editors have built further on the work of Dr Vogel, modernising the approach while retaining the analytical concepts and ideas which

were built into the original work. This new edition has been extensively revised to take into account developments in instrumental procedures and coupled techniques whilst maintaining the book's focus on quantitative chemical and problem-specific analyses. With excellent cross-referencing this book provides a wealth of examples and tables of data.

FEATURES

- Comprehensive coverage of methods with detailed easy-to-follow practical experiments.
- Basic analytical theory which is essential for understanding the subject.
- Greatly expanded sections on instrumental analysis including aspects of miniaturisation.
- Increased emphasis on minor/trace component analysis and revised statistical handling of data.
- New chapters on sampling, mass spectrometry and nuclear magnetic resonance.

CONTENTS

- | | | |
|---|--|--|
| 1. Preface to First Edition. | 8. Statistics, Introduction to Chemometrics. | 17. Direct Electroanalytical Methods. |
| 2. Preface to Sixth Edition. | 9. Sampling. | 18. Nuclear Magnetic Resonance Spectroscopy. |
| 3. Safety; Units. | 10. The Basis of Separative Methods. | 19. Atomic Absorption Spectroscopy. |
| 4. Reagent Purity. | 11. Thin Layer Chromatography. | 20. Atomic Emission Spectroscopy. |
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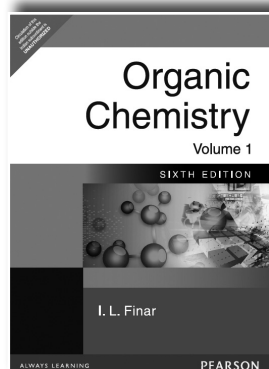
J. Mendham, Consultant Analytical Chemist
R.C. Denney, Consultant Forensic Scientist

J. D. Barnes, University of Greenwich
M.J.K. Thomas, University of Greenwich

Organic Chemistry, Volume 1, 6/e

 I. L. Finar

 966 | © 2005



ISBN: 9788177585421

ABOUT THE BOOK

In the sixth edition of Dr. Finar's best-selling student text, a great deal of material has been rewritten and many new topics have been added. The arrangement of the subject matter is based on homologous series and SI units have been used throughout the text.

CONTENTS

1. Determination of Structure
2. Properties of Molecules
3. Alkanes
4. Alkenes and Alkynes
5. Halogen derivatives of the alkanes
6. Monohydric alcohols
7. Ethers
8. Aldehydes and ketones
9. Saturated monocarboxylic acids and their derivatives
10. Polycarbonyl compounds
11. Polyhydric alcohols
12. Unsaturated alcohols, ethers, carbonyl compounds and acids
13. Nitrogen compounds
14. Aliphatic compounds of sulphur, phosphorus, silicon and boron
15. Organometallic compounds
16. Saturated dicarboxylic acids
17. Hydroxyacids, stereochemistry, unsaturated dicarboxylic acids
18. Carbohydrates
19. Alicyclic compounds
20. Monocyclic aromatic hydrocarbons
21. Aromatic halogen compounds
22. Aromatic nitro-compounds
23. Aromatic amino-compounds
24. Diazonium salts and their related compounds
25. Aromatic sulphonic acids
26. Phenols and quinones
27. Aromatic alcohols, aldehydes and ketones
28. Aromatic acids
29. Polynuclear hydrocarbons and their derivatives
30. Heterocyclic compounds
31. Dyes and photochemistry

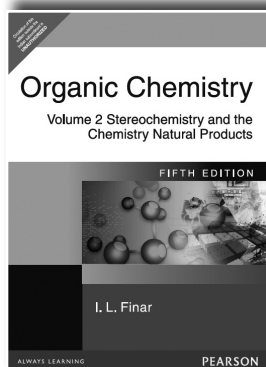
ABOUT THE AUTHOR

The late Dr. Finar was Principal Lecturer in Organic Chemistry at the Polytechnic of North London.

Organic Chemistry, Volume 2: Stereochemistry and the Chemistry Natural Products, 5/e

 I. L. Finar

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ISBN: 9788177585414

ABOUT THE BOOK

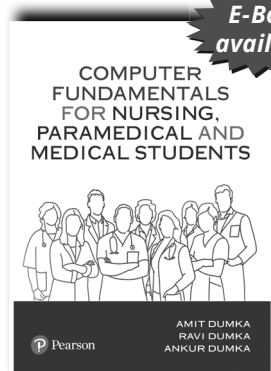
Organic Chemistry is a well-established two-volume textbook for students studying chemistry at degree level. Volume 2 carries the material of Volume 1: Fundamental Principles to a more advanced level. The author provides a comprehensive introduction to the relationship between physical properties and chemical structures, and then proceeds to a detailed account of stereochemistry. The later chapters are devoted to the most typical compounds of natural products and the problems involved. A selected number of reading references are given at the end of each chapter.

CONTENTS

1. Physical properties and chemical constitution
2. Optical isomerism
3. Nucleophilic substitution at a saturated carbon atom, asymmetric synthesis
4. Geometrical isomerism, stereochemistry of alicyclic compounds
5. Stereochemistry of biphenyl compounds
6. Stereochemistry of some elements other than carbon
7. Carbohydrates
8. Terpenoids
9. Carotenoids
10. Polycyclic aromatic hydrocarbons
11. Steroids
12. Heterocyclic compounds containing two or more hetero-atoms
13. Amino-acids and proteins
14. Alkaloids
15. Anthocyanins
16. Purines and nucleic acids
17. Vitamins
18. Chemotherapy
19. Haemoglobin, chlorophyll and phthalocyanines

ABOUT THE AUTHOR

The late Dr. Finar was Principal Lecturer in Organic Chemistry at the Polytechnic of North London.



ISBN: 9789357052931

Computer Fundamentals for Nursing, Paramedical and Medical Students

 **Amit Dumka | Ravi Dumka | Ankur Dumka**

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ABOUT THE BOOK

This book provides the basics of computer technologies that are useful for nursing, paramedical and medical students and any reader who want to learn the different applications of computers. Spread across eleven chapters, the book covers all the aspects of the subject from basics of computers to its application in healthcare in a student-friendly manner. It also explains the ways data, knowledge and information can be used for effective healthcare.

FEATURES

- Demonstrates the use of computer and technology in patient care, nursing education, practice, administration and research.
- Describes the principles of health informatics and its use in developing efficient healthcare.
- Numerous screenshots to aid follow and practice approach

CONTENTS

1. Chapter 1 Basic Concepts of Computers
2. Chapter 2 Operating System
3. Chapter 3 An Introduction to MS-Word
4. Chapter 4 An Introduction to MS-Excel
5. Chapter 5 An Introduction to PowerPoint
6. Chapter 6 An Introduction to Microsoft Access
7. Chapter 7 Application of Internet and e-Mail
8. Chapter 8 An Introduction to Multimedia
9. Chapter 9 Statistical Packages: Usages and Types
10. Chapter 10 Hospital Management System (HMS): Types and Usage
11. Chapter 11 Application of Computers in Medical Education and Health Informatics (Nursing/Health Informatics)

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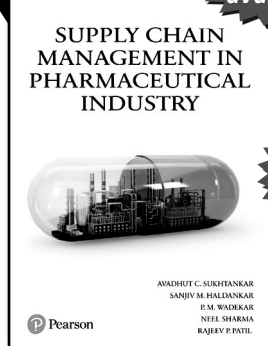
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Supply Chain Management in Pharmaceutical Industry

NEW

E-Book
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ISBN: 9788119896516



Avadhut C. Sukhtankar | Sanjiv M. Haldankar |
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ABOUT THE BOOK

Supply Chain Management in Pharmaceutical Industry is a comprehensive textbook tailored for Pharma MBA students, part-time MBA students specializing in Pharma, and SCM enthusiasts. With 36 insightful chapters divided into 5 parts, this book delves into the core principles, strategies, and emerging trends essential for navigating the dynamic landscape of pharmaceutical supply chains. Designed as both a textbook and a reference guide, it serves as a valuable resource for management trainees, mentors, teachers, and trainers in SCM, offering practical insights and real-world case studies.

Beyond the pharmaceutical sector, professionals from diverse functions within the industry, such as Maintenance Engineers, Accounts Officers, and Marketing Professionals, will find valuable insights for job and career development. Moreover, this comprehensive guide extends its applicability to related industries such as Nutraceuticals, Foods, and Beverages, making it an indispensable resource for anyone involved in optimizing supply chains across the broader healthcare and consumer goods landscape.

CONTENTS

1. Introduction to Pharmaceutical Industry in India
2. Introduction to Supply Chain Management
3. Value Chain in Pharmaceutical Industry
4. Supply Chain in the Pharmaceutical Industry
5. Demand Generation and Forecasting
6. Inventory Management in the Pharma Industry
7. Procurement in Pharma
8. Vendor Development/Management
9. Warehousing in Pharma Industry
10. Procurement of Capital Equipment and Spares
11. Supply Chain Planning and Strategies
12. Order Processing and Fulfillment
13. Transportation Strategy in Supply Chain
14. Good Manufacturing Practices
15. Regulatory Requirements in Pharmaceutical Industry
16. Introduction to Logistics and Distribution
17. Primary Distribution
18. Secondary Distribution
19. Good Warehousing Practices
20. Transportation of Pharmaceutical Products
21. Reverse Logistics in Pharmaceutical
22. Role of Trade Bodies in Pharma
23. Goods and Service Tax (GST)
24. Three PL and Four PL
25. Online Sales in Pharmaceutical Industry
26. Total Cost Approach in Distribution
27. Financial Aspects in Supply Chain
28. Outsourcing in the Pharmaceutical Industry
29. Global Supply Chain
30. Imports
31. International Trade
32. Information Technology in Pharma Supply Chain
33. Cold Chain Pharmaceutical Products
34. Supply Chain Performance Measure
35. Supply Chain Issues and Challenges in Pharmaceutical Industry
36. Critical Success Factors in Supply Chain in Pharmaceutical Industry

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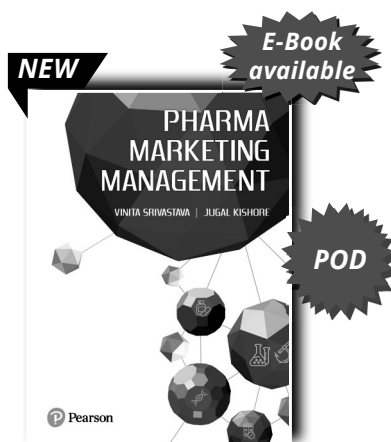
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PHARMA MARKETING MANAGEMENT



ISBN: 9788119896318

Pharma Marketing Management

 Vinita Srivastava | Jugal Kishore

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ABOUT THE BOOK

Pharma Marketing Management offers a comprehensive exploration of the concurrent dynamics of pharmaceutical marketing in India. With six insightful chapters, dealing with pharmaceutical market management concepts and principles, product decisions, promotion, pharmaceutical marketing channels, pricing, and regulatory framework, this book delves into essential topics crucial for understanding and navigating the complexities of the pharmaceutical industry. Designed to cater to a diverse audience, including students of management, pharmaceutical sciences, marketing, economics, pharmacology, public health, and legislation, this book serves as

an indispensable resource for anyone seeking to deepen their understanding of pharmaceutical marketing management concepts and practices.

CONTENTS

1. Marketing Management and Pharmaceutical Marketing Management
2. Product Decision
3. Promotion
4. Pharmaceutical Marketing Channels
5. Pricing
6. Regulatory Framework

ABOUT THE AUTHOR(S)

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