

## Microbiology Made Incredibly Easy 5th Edition

This one-of-a-kind book brings together the broad knowledge nurses need to be confident in cardiovascular care, including cardiovascular anatomy and physiology; assessment; diagnostic testing; hemodynamic monitoring; electrocardiogram performance and interpretation; medications; synchronized cardioversion; care of patients with IABP counterpulsation, ICDs, pacemakers, and VADs; and preoperative and postoperative care for patients with MIDCAB, CABG, and balloon angioplasty.

A brief overview of the basic science and clinical aspects of immunology. The basic science section is a clear presentation of innate and adaptive immunity, immune cells, antibodies and antigens, and other components of the immune system and their interactions. The clinical section clarifies hypersensitivity, autoimmunity, immunodeficiency, common diagnostic tests, vaccination, transplantation, and tumor immunology.

Providing a solid introduction to the essentials of diagnostic microbiology, this accessible, full-color text helps you develop the problem-solving skills necessary for success in the clinical setting. A reader-friendly, "building block" approach to microbiology moves progressively from basic concepts to advanced understanding, guiding you through the systematic identification of etiologic agents of infectious diseases. Building block approach encourages recall of previously learned information, enhancing your critical and problem solving skills. Case in Point feature introduces case studies at the beginning of each chapter. Issues to Consider encourages you to analyze and comprehend the case in point. Key Terms provide a list of the most important and relevant terms in each chapter. Objectives give a measurable outcome to achieve by completing the material. Points to Remember summarize and help clearly identify key concepts covered in each chapter. Learning assessment questions evaluate how well you have mastered the material. New content addresses bone and joint infections, genital tract infections, and nosocomial infections. Significantly updated chapter includes current information on molecular biology and highlights content on multidrug resistant bacteria. Reorganized chapters accent the most relevant information about viruses and parasites that are also transmissible to humans. Case studies on the Evolve site let you apply the information that you learn to realistic scenarios encountered in the laboratory.

Presents detailed information about human anatomy, with diagrams, tables, and an accompanying CD atlas.

Designed for non-majors and allied health students, Microbiology: Alternate Edition with Diseases by Body System retains the same hallmark art program and clear writing style that have made Robert Bauman's Microbiology such a success, while offering a new body-systems organization for the "disease chapters" (Chapters 19-24). Every student text automatically includes a CD-ROM of the Microbiology Place Website, along with an access code to the online version featuring Research Navigator(tm) . The enhanced Instructor's CD-ROM features dozens of new interactive animations that depict complex microbial processes, as well as all art and photos from the book, videos of microorganisms, customizable PowerPoint(R) lecture outlines, and customizable figures for quickly creating engaging and dynamic classroom presentations.

Step into maternal-neonatal nursing with confidence and know-how, with the fully updated Maternal-Neonatal Nursing Made Incredibly Easy!®, 4th Edition. This friendly guide's colorful images and helpful learning aids offer the latest in nursing interventions for prenatal care basics, including high-risk pregnancy, family planning, contraception and infertility, labor and birth, and postpartum care, presented in the enjoyable Incredibly Easy style. Offering practice questions written in NCLEX® exam format, this is the ideal support for nursing students and new nurses preparing for certification and the everyday challenges of the maternal-neonatal unit.

Microbiology: A Systems Approach is an allied health microbiology text for non-science majors with a body systems approach to the disease chapters. It has become known for its engaging writing style, instructional art program and focus on active learning. We are so excited to offer a robust learning program with student-focused learning activities, allowing the student to manage their learning while you easily manage their assessment. Detailed reports show how your assignments measure various learning objectives from the book (or input your own ), levels of Bloom's Taxonomy or other categories, and how your students are doing. The Cowan Learning program will save you time and improve your students success in this course.

"All the ophthalmology necessary for the non-ophthalmologist. Includes interactive CD (WIN/MAC) with atlas of ophthalmic diseases, as well as movies of common ocular surgical procedures (cataract surgery, lens implantation, Lasik, Lasek, intacs surgery)."--Publisher description.

The book blends the essentials of basic pharmacology and clinical pharmacology so that the transition from classroom to hospital is less abrupt. Students report that the book is most effective when lecture notes are written directly on the tables and margins, providing a single, concise guide for finals and the National Boards.

Part of the popular LPN Threads series, this comprehensive text includes in-depth discussions of fundamental concepts and skills, plus medical-surgical content to help you provide safe and effective care in the fast-paced healthcare environment. Easy-to-read content, an enhanced focus on preparing for the NCLEX® Examination, and a wealth of tips and study tools make Foundations and Adult Health Nursing, 6th Edition, your must-have text!

Feeling unsure about your critical care nursing skills? Time to gain some confident know-how, with the freshly updated Critical Care Nursing Made Incredibly Easy!®, 5th Edition. This friendly, fully illustrated guide offers clear, concise direction on treating numerous acute and life-threatening issues. Absorb current best practices on critical care basics and specialized areas such as advanced life support measures, multisystem trauma, and treating specialized needs. This is ideal guidance for students, nurses new to clinical care, and those preparing for the Critical Care (CCRN) certification exam.

Get all the basics on drug therapies—and administer drugs confidently and accurately—with the newly updated Pharmacology Made Incredibly Easy, 4th Edition. Written in the enjoyable, award-

winning Incredibly Easy style, this easy-to-follow, fully illustrated guide offers step-by-step direction on the medication process, from assessing patient needs, to planning care, to implementation and positive outcomes. Strengthen your understanding of your class materials, get ready for the NCLEX® or certification exam, and administer drug therapies—safely and effectively! Build a strong platform of pharmacology knowledge and skills with. . . NEW and updated content on the newest approved medications and dosages and NEW tables listing: NEW vaccines and treatment for biological weapons exposure NEW treatment and antidotes for chemical weapons exposure NEW herbal drugs content NEW icons and images that clarify content Revised and updated content on the concepts of pharmacokinetics, pharmacodynamics, and pharmacotherapeutics Pharmacology basics – How drugs are derived, developed, classified, and administered; classes of drugs by body system; their uses and mechanisms “Nurse Joy” and “Nurse Jake” illustrated characters offering tips and insights throughout Quick-scan format with concise, bulleted content Hundreds of illustrations and diagrams explaining key concepts and providing clear direction on administering drugs; drug distribution, absorption, and metabolism; potential drug interactions; adverse reactions; how different classes of drugs work in different body systems Special chapter features: Just the facts – A quick summary of chapter content Advice from the experts – Experienced practitioners’ insights Prototype pro – Actions, indications, and nursing considerations for common prototype drugs Nursing process – Patient assessment, diagnosis, outcome goals, implementation, and evaluation for each type and class of drug Pharm function – Illustrating how drugs act in the body; recognizing and treating adverse reactions Before you give that drug – Warnings to consider before you administer a drug Education edge – Information to share with your patient Quick quiz – End-of-chapter questions with answers/explanations, to help you remember the essentials End-of-book multiple-choice Q&A; Quick Guides to Medication Safety, Ophthalmic and Dermatologic Drugs, and Abbreviations to Avoid; Glossary of essential pharmacology terms.

Review of Medical Microbiology and Immunology provides a concise review of the medically important aspects of microbiology, covering the basic and clinical aspects of bacteriology, virology, mycology, parasitology and immunology. It emphasizes the clinical application of microbiology and immunology to infectious diseases. The book's principle objectives are to assist you in preparing for the USMLE Step 1 and to provide you with a high-yield source of information for their medical microbiology courses. The content is enhanced by numerous pedagogical features such as clinical case discussions, sample questions in USMLE format, and a USMLE-practice exam.

Essential Microbiology 2nd Edition is a fully revised comprehensive introductory text aimed at students taking a first course in the subject. It provides an ideal entry into the world of microorganisms, considering all aspects of their biology (structure, metabolism, genetics), and illustrates the remarkable diversity of microbial life by devoting a chapter to each of the main taxonomic groupings. The second part of the book introduces the reader to aspects of applied microbiology, exploring the involvement of microorganisms in areas as diverse as food and drink production, genetic engineering, global recycling systems and infectious disease. Essential Microbiology explains the key points of each topic but avoids overburdening the student with unnecessary detail. Now in full colour it makes extensive use of clear line diagrams to clarify sometimes difficult concepts or mechanisms. A companion web site includes further material including MCQs, enabling the student to assess their understanding of the main concepts that have been covered. This edition has been fully revised and updated to reflect the developments that have occurred in recent years and includes a completely new section devoted to medical microbiology. Students of any life science degree course will find this a concise and valuable introduction to microbiology.

Presents information logically, based on the pathophysiology of disease, significance of evidence, and avoidance of harmful effects inherent at the critical care level of nursing practice. Chapters include critical care basics, holistic care issues, body system-based conditions, and hematologic, immune and multisystem disorders. This new edition is completely updated to incorporate the spectrum of critical care and evidence-based nursing practice, ranging from moderate sedation and perianesthesia management to special concerns for patients who are elderly, the types of shock, management of stroke, and more.

No need to feel stressed over anatomy and physiology—grasp all the basic terms and concepts, with the fully updated Anatomy and Physiology Made Incredibly Easy!, 5th Edition. Using humor and friendly guidance, this colorful text gives you the pure-and-simple clarity you need to understand the basic structure and functions of all major body systems, while also guiding you through genetics, nutrition, reproduction, and more. This handy quick-reference guide is the ideal NCLEX® study aid, textbook support, or quick refresher for nurses and other healthcare practitioners. Grasp the details of anatomy and physiology, in the Incredibly Easy!® way . . . NEW and completely updated content in easy-read format to simplify the core concepts of anatomy and physiology Defines anatomic terms such as cell structure, cell reproduction and energy generation, the four basic tissue types and their characteristics, and more End-of-book, pocket-sized study cards for easy review anywhere, anytime Explains the forms and locations of body structures – the directional terms, reference planes, cavities, and regions of every major body system Dozens of full-color drawings and diagrams illustrating all major body systems—integumentary, musculoskeletal, neurosensory, endocrine, cardiovascular, and more, plus: fluids and electrolytes reproduction and lactation genetics nutrition chemical organization Special features include: “Nurse Joy” and “Jake” – expert insights, key concepts, and important care reminders Zoom in – an up-close look at anatomic structures Now I get it! – complex physiology processes stated in easy-to-handle terms Just the facts – quick content summary at start of each chapter Quick quiz – multiple-choice questions at end of each chapter to help you retain what you learned Senior moment – explains physiologic changes that occur with aging in each body system Body shop – illustrates how body systems and structures work together Memory jogger – helpful tricks and tips to help you retain vital data Just for fun – fun puzzles for boosting your understanding of anatomical terms and pathophysiological concepts Practice Makes Perfect – end-of-book NCLEX® practice questions, for solid exam preparation

Health Assessment Made Incredibly Visual maximizes visual learning to help nurses master patient assessment. The book features: Hundreds of detailed and colorful photographs, diagrams, charts, and other visual aids guide nurses through each step of performing a head-to-toe physical examination. Aids nurses in identifying normal and abnormal findings. Light-hearted logos reinforce key points, and Best Picture graphically displays the best way to perform a technique. Take Note features lifelike charts showing how to document findings. Outside the Norm presents clear illustrations of abnormal findings. Memory Board presents visual mnemonics to help nurses remember difficult concepts. “Vision Quest” puzzles test readers’ knowledge in an entertaining way.

Licenses Available: Institutional Single-Seat (for one computer) and Network (network server/multi-user) For product, price and ordering information, call: 1-800-326-1685 (Hospitals/Gvt Accounts/Labs/Health Care Facilities) 1-800-624-8947 (Universities/Colleges) This engaging CD-ROM provides a fun way for students to prepare for NCLEX and other tough exams - and offers practicing nurses an excellent

review for professional certification. More than 1,000 multiple-choice questions cover the fundamentals of psychiatric care; schizophrenia and other psychotic disorders; mood, anxiety, personality, cognitive, eating, and other disorders; substance abuse; and other special topics. Users stay motivated with three mesmerizing games that boost recall. Includes immediate feedback for each question, rationales for correct and incorrect answers, helpful hints for hard-to-answer questions, a 16-page companion booklet, and more. Call 1-800-326-1685 for Hosp/Govt/HealthCare, 1-800-399-3110 Univ./Colleges

ECG Interpretation Made Incredibly Easy makes learning to read and interpret rhythm strips simple. The book reviews fundamental cardiac anatomy and physiology, explains how to obtain and interpret a rhythm strip, and teaches the reader how to recognize and treat sinus, atrial, and ventricular arrhythmias, as well as heart blocks. In addition, the book explains how to obtain and interpret 12-lead ECGs. Each chapter features: a summary of key points; clear, simple explanations of problems; definitions of key terms; illustrations that clearly explain key concepts; bullets, ballot boxes, and checklists that make it easy to spot important points at a glance; sidebars that highlights key facts about ECG interpretation; and quick quizzes to test knowledge.

A systemic approach to clinical anatomy with a high picture-to-text ratio. Learning occurs through conceptual diagrams, ridiculous associations, and a strong focus on clinical relevance

Provides a conceptual overview of pathophysiology and mechanisms of disease, designed to ease the transition from the basic sciences to the clinical years. This book will be a phenomenal learning tool for students in the second and third years of medical school and during USMLE Step 1 preparation, but will also be very helpful to nurses, nurse practitioners, physician assistants, and other health care professionals seeking to learn or review the physiological mechanisms of diseases, their diagnosis, and their management. The accompanied CD, Differential Diagnosis, allows one to select a symptom, sign, or lab finding and see all of the many diseases that could cause it, classified by pathophysiological mechanism. By teaching basic medical science and clinical reasoning hand-in-hand in a simple, light, and highly accessible writing style, this book provides an integrated and easy-to-understand approach to learning the science of medicine.

The Use of Mass Spectrometry Technology (MALDI-TOF) in Clinical Microbiology presents the state-of-the-art for MALDI-TOF mass spectrometry. It is a key reference defining how MALDI-TOF mass spectrometry is used in clinical settings as a diagnostic tool of microbial identification and characterization that is based on the detection of a mass of molecules. The book provides updated applications of MALDI-TOF techniques in clinical microbiology, presenting the latest information available on a technology that is now used for rapid microbial identification at relatively low cost, thus offering an alternative to conventional laboratory diagnosis and proteomic identification systems. Although the main use of the technology has, until now, been identification or typing of bacteria from a positive culture, applications in the field of virology, mycology, microbacteriology and resistances are opening up new opportunities. Presents updated applications of MALDI-TOF techniques in clinical microbiology Describes the use of mass spectrometry in the lab, the principles of the technology, preparation of samples, device calibration and maintenance, treatment of microorganisms, and quality control Presents key information for researchers, including possible uses of the technology, differences between devices, how to interpret results, and future applications Covers the topic in a systematic and comprehensive manner that is useful to both clinicians and researchers

This now-classic text presents the most relevant points in clinical neuroanatomy with mnemonics, humor and case presentations. For neuroanatomy courses and Board review. Includes attached CD-ROM on Neurologic Localization with 3D animated rotations of the brain. Neuroanatomy laboratory tutorial with photographs of brain specimens. Tutorial on how to localize neurologic injuries; Interactive quiz of classic neurologic cases; Windows/Macintosh CD + book. The new edition adds a chapter on neurotransmitters.

Master the Fundamentals of Microbiology with This Concise Learning Guide Covered in the Microbiology Made Easy guide are the following areas: - The common characteristics of microorganisms. - How microbes are different from one another. - The processes quintessential to microbial life. - The diversity of microbial life. - The ways in which microbes impact our lives. - How microbes are identified and classified. - The clinical manifestations, diagnostics, and virulence factors of clinically significant microbes. - How diseases caused by microbes are treated. - The types, structure, and replication of viruses. - The functioning of the different parasites and the diseases they cause. - The types of fungi and their implications for humans and plants. - And much more! The ultimate aim of this book is to kick-start your understanding of microbial life. It is tailored toward the lifelong learner and explorer. It can also be used by students dipping into the subject, along with their core microbiology text - or as a convenient review tool! Kickstart Your Microbiology Mastery Now!

A brief, clear, thorough, and highly enjoyable approach to clinical microbiology, brimming with mnemonics, humor, summary charts and illustrations, from AIDS to "flesh-eating bacteria" to ebola, mad cow disease, hantavirus, anthrax, smallpox, botulism, etc. Excellent Board review.

Part of the popular LPN Threads series, this comprehensive text prepares you for safe and effective nursing practice in today's fast-paced healthcare environment. Covering maternal and neonatal, pediatric, geriatric, mental health, and community nursing, Foundations of Nursing, 6th Edition, includes all of the essential LPN/LVN content you need. Companion CD includes animations and audio clips depicting physiologic processes, physical assessment video clips, an English/Spanish glossary with definitions and audio pronunciations, an anatomy coloring book, and a fluid and electrolytes tutorial. The consistent, logical framework of the nursing process connects specific disorders to patient care. A mathematics review chapter provides a complete review of basic arithmetic skills and practice in drug dosage calculation to ensure safe medication administration. Safety Alert boxes help you implement The Joint Commission's safety guidelines in all settings, with considerations for special populations. Nursing Diagnosis boxes, screened and highlighted in the text, include nursing diagnoses for specific disorders paired with the appropriate nursing interventions. More than 100 skills in a step-by-step format with full-color illustrations present clearly defined nursing actions with rationales for the skills and techniques you'll use in practice. Medication tables are meticulously detailed and provide quick access to action, dosage, precautions, and nursing considerations for commonly used drugs. Nursing Care Plans, presented in a case-study format, emphasize patient goals and outcomes and end with Critical Thinking Questions to develop your clinical decision-making skills. Coordinated Care boxes emphasize parameters for prioritizing tasks, as well as assigning tasks to and supervising unlicensed assistive personnel. Patient Teaching boxes and Family Teaching boxes include post-hospital discharge guidelines and disease prevention instructions with a strong focus on three-way communication among the nurse, patient, and family members. Life Span Considerations for Older Adults boxes provide age-specific information for the care of the aging population, which is often the primary focus of the LPN/LVN nurse. Home Care Considerations boxes discuss the issues facing patients and caregivers in the home health care setting. Health Promotion boxes provide key information on staying healthy and preventing disease, with tips on wellness from Healthy People 2010. Cultural Considerations boxes discuss how to address the health needs of a culturally diverse patient population when planning care. Enhanced focus on the NCLEX® Examination offers end-of-chapter Get Ready for the NCLEX Examination! sections with key points for self-guided study and remediation and an extensive set of review questions for thorough self-assessment. Additional review questions on Evolve provide instant feedback with correct answer and rationale for even more test-taking practice. Evidence-Based

Practice boxes summarize the latest research findings and highlight how they apply to LPN/LVN practice. Updated, vibrant full-color design highlights key information and enhances your understanding of important concepts.

Now updated to full color throughout, *Anatomy & Physiology Made Incredibly Easy! Third Edition* presents the vast, sometimes overwhelming details of anatomy and physiology in the enjoyable, user-friendly, award-winning *Incredibly Easy!* style. It reviews the core concepts of A&P and offers detailed coverage of every body system, nutrition, fluids and electrolytes, reproduction and lactation, and genetics. This edition includes a "Practice Makes Perfect" section of NCLEX®-style questions and pocket-sized study cards for on-the-go review. A companion Website offers new student and instructor resources including study cards, physiology animations, PowerPoint presentations, a test generator, teaching tips, and practice exercises/activities. "Assessment Made Incredibly Easy, 5e presents nursing assessment skills in the reader-friendly *Incredibly Easy!* format that makes learning fun. With an appealing 4-color interior and light-hearted humor throughout, the text provides the know-how nurses need to obtain pertinent health histories, perform physical examinations, and recognize normal and abnormal findings. Abundant full-color illustrations, charts, memory joggers, and other special features help nurses master assessment techniques and remember key information. The Practice Makes Perfect self-test includes updated NCLEX(r)-style questions with rationales for correct and incorrect answers. A companion Website offers ancillary materials, including an image bank, printable study cards, and numerous games newly added for this 5th edition"--Provided by publisher.

Revised to meet the latest Board of Nurse Examiners criteria for the NCLEX-RN®, this book uses the well-known *Incredibly Easy!* approach to make NCLEX® review effective and enjoyable. In a light-hearted manner that reduces anxiety and aids retention, the book thoroughly reviews every area of nursing—adult care, psychiatric care, maternal-neonatal care, care of the child, leadership and management, and law and ethics. This edition includes a new chapter on how to prepare for the NCLEX®, plus 200 alternate-format questions and answers added to the appendix and accompanying CD-ROM. The book also includes an entertaining graphic novel depicting the NCLEX® process from application to license and valuable strategies for successfully passing the exam.

*Dosage Calculations Made Incredibly Easy* contains everything health care practitioners need to review and students need to learn about calculating drug dosages. This entertaining and informative reference reviews the basic math needed to perform dosage calculation, including fractions, decimals, percentages, ratios, and proportions. It walks the nurse through the interpretation of hundreds of examples of drug orders and the performance of hundreds of complex dosage calculations, and provides information on deciphering difficult abbreviations, dealing with unclear handwriting, reading medication labels, selecting administration equipment, and more.

"Microbiology covers the scope and sequence requirements for a single-semester microbiology course for non-majors. The book presents the core concepts of microbiology with a focus on applications for careers in allied health. The pedagogical features of the text make the material interesting and accessible while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The book aligns with the curriculum guidelines of the American Society for Microbiology."--BC Campus website.

Expanded, updated, and now in full color throughout, this Fourth Edition presents vital pathophysiology information in an easy-to-understand, easy-to-remember, entertaining, and practical manner. Chapters cover cancer, infection, immune disorders, genetics, blood, and disorders of each body system, highlighting pathophysiologic processes, signs and symptoms, diagnostic test findings, and current treatments. Illustrations, memory joggers, and other special features help readers understand and remember key points. This edition's expanded cancer chapter covers more types of cancer. The Practice Makes Perfect self-test includes more NCLEX®-style questions, with rationales for correct and incorrect answers. A companion website on thePoint will offer additional information, illustrations, memory joggers, and study cards.

Now in its third edition, this informative and indispensable reference reviews fundamental information about fluids, electrolytes, and acid-base balance; identifies electrolyte fluid, acid, and base imbalances; describes imbalances in major health problems, and more in an easy-to-understand format.

As with the successful first edition, the new edition of *Microbiology: A Clinical Approach* is written specifically for pre-nursing and allied health students. It is clinically-relevant throughout and uses the theme of infection as its foundation. Microbiology is student-friendly: its text, figures, and electronic resources have been carefully designed.

Get a thorough grounding in delivering safe, effective infusion therapy with the friendly support and technical guidance of the newly updated *Infusion Therapy Made Incredibly Easy!®, 5th edition*. This complete how-to on administering and monitoring different IV medications delivers clear direction on vital concepts, terms, and techniques—backed by numerous illustrations, confidence-building humor, and expert insights. Offering clear, concise direction for nursing students, this popular *Incredibly Easy!®* text is also the ideal refresher for nurses and all practitioners learning best practices for a range of infusion therapies.

The foremost text in this complex and fast-changing field, *Medical Microbiology, 9th Edition*, provides concise, up-to-date, and understandable explanations of key concepts in medical microbiology, immunology, and the microbes that cause human disease. Clear, engaging coverage of basic principles, immunology, laboratory diagnosis, bacteriology, virology, mycology, and parasitology help you master the essentials of microbiology?effectively preparing you for your coursework, exams, and beyond. Features significant new information on the human microbiome and its influence on the immune and other body systems, and new developments in microbial diagnosis, treatment, diseases, and pathogens. Updates every chapter with state-of-the-art information and current literature citations. Summarizes detailed information in tabular format rather than in lengthy text. Provides review questions at the end of each chapter that correlate basic science with clinical practice. Features clinical cases that illustrate the epidemiology, diagnosis, and treatment of infectious diseases. Introduces microbe chapters with summaries and trigger words for easy review. Highlights the text with clear, colorful figures, clinical

photographs, and images that help you visualize the clinical presentation of infections. Offers additional study features online, including 200 self-assessment questions, microscopic images of the microbes, videos, and a new integrating chapter that provides hyperlinks between the microbes, the organ systems that they affect, and their diseases. Evolve Instructor site with an image and video collection is available to instructors through their Elsevier sales rep or via request at: <https://evolve.elsevier.com>.

Microbiology For Dummies (9781119544425) was previously published as Microbiology For Dummies (9781118871188). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. Microbiology is the study of life itself, down to the smallest particle. Microbiology is a fascinating field that explores life down to the tiniest level. Did you know that your body contains more bacteria cells than human cells? It's true. Microbes are essential to our everyday lives, from the food we eat to the very internal systems that keep us alive. These microbes include bacteria, algae, fungi, viruses, and nematodes. Without microbes, life on Earth would not survive. It's amazing to think that all life is so dependent on these microscopic creatures, but their impact on our future is even more astonishing. Microbes are the tools that allow us to engineer hardier crops, create better medicines, and fuel our technology in sustainable ways. Microbes may just help us save the world. Microbiology For Dummies is your guide to understanding the fundamentals of this enormously-encompassing field. Whether your career plans include microbiology or another science or health specialty, you need to understand life at the cellular level before you can understand anything on the macro scale. Explore the difference between prokaryotic and eukaryotic cells Understand the basics of cell function and metabolism Discover the differences between pathogenic and symbiotic relationships Study the mechanisms that keep different organisms active and alive You need to know how cells work, how they get nutrients, and how they die. You need to know the effects different microbes have on different systems, and how certain microbes are integral to ecosystem health. Microbes are literally the foundation of all life, and they are everywhere. Microbiology For Dummies will help you understand them, appreciate them, and use them.

The CD-ROM contains case studies, questions and answers, visual references and useful additional material.

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