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## BC5 - BURKE SAUNDERS

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This authoritative book gathers together a broad range of ideas and topics that define the field. It provides clear, concise, and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics. The Third Edition contains substantial new material. Most chapters have been thoroughly reworked. The book includes chapters on important topics such as sensory transduction, the physiology of protozoa and bacteria, the regulation of cell division, and programmed cell death. Completely revised and updated - includes 8 new chapters on such topics as membrane structure, intracellular chloride regulation, transport, sensory receptors, pressure, and olfactory/taste receptors Includes broad coverage of both animal and plant cells Appendixes review basics of the propagation of action potentials, electricity, and cable properties Authored by leading experts in the field Clear, concise, comprehensive cov-

erage of all aspects of cellular physiology from fundamental concepts to more advanced topics

Regulators of G Protein Signaling, Part A is an in-depth treatment of G-Protein Signaling, and will cover general methods of analysis of RGS protein analysis, including Expression and post-translational modification, Assays of GAP activity and allosteric control, Electrophysiological methods and RGS-insensitive Ga subunits, Mouse models of RGS protein action, Methods of RGS protein inhibition, and G-protein regulators of model organisms. Table of Contents Expression and post-translational modification Assays of GAP activity and allosteric control Electrophysiological methods and RGS-insensitive Ga subunits Mouse Models of RGS protein action Methods of RGS protein inhibition G-protein regulators of model organisms

Perioperative fluid therapy requires the correct selection, amount, and composition of fluids based on the patient's underlying pathology, state of hydration,

and type and duration of surgical stress. Filling a gap in the literature, this source provides a solid foundation to practical perioperative fluid management, fluid solutions, and the utiliz

**Introduction.** Tear hyper-osmolarity may be a fundamental cause of dry eye in many cases. Hyaluronate is an agent used in some artificial tears, which binds water and can protect against evaporation. It may therefore be an effective treatment for tear hyper-osmolarity. **Purpose.** Our purpose was to measure changes in tear osmolarity over time following instillation of Blink Contacts, an isotonic ocular lubricant containing hyaluronate. We hypothesized that even in isotonic solution, the water-binding properties of hyaluronate would reduce tear osmolarity. This will help us better understand efficacy of this treatment and develop a rational basis for dosing schedules. **Conclusions.** We conclude, although hyaluronate binds water, it does not significantly alter tear osmolarity when its osmolarity is similar to that of the tears. However, it may reduce osmolarity when it is more hypotonic relative to the tears. Small sample size, few eyes with hyperosmolarity and limitations of our methods may have affected results.

Essay from the year 2018 in the subject Biology - General, Basics, language: English, abstract: The aim of this paper is to investigate the change in mass potato strips over a period of two hours when immersed in distilled water (hypotonic solution) and salty water (hypertonic solution). **Research Question:** How does the size of potato strips when immersed in both distilled water and salty water change over a period of 2 and half hours measured at 30 minutes intervals? **Background Information:** Osmosis is one of the physiological processes in living or-

ganisms, among them active transport and diffusion. Osmosis is the movement of water molecules from a region of low concentration to a region of high concentration across the semi-permeable membrane. In plants it makes cells to be turgid while in animals it offsets the osmotic pressures in the cell. Plant cells are hypertonic because they have a cell sap, so when they are put in distilled water (hypotonic solution), it absorbs water by osmosis, swells up and become turgid. They do not burst because they have a cell wall that develops a wall pressure that balances the turgor pressure exerted by turgid cells. As the plant gains turgidity, its volume increases until it achieves maximum turgidity, water will then start moving out of the cell to balance the pressure in the cells and outside environment.

A classic nephrology reference for over 20 years, Seldin & Giebisch's *The Kidney*, is the acknowledged authority on renal physiology and pathophysiology. The fourth edition follows the changed focus of nephrology research to the study of how individual molecules work together to affect cellular and organ function, emphasizing the mechanisms of disease. With over 40 new chapters and over 1000 illustrations, this edition offers the most in-depth discussion anywhere of the physiologic and pathophysiologic processes of renal disease. Comprehensive, authoritative coverage progresses from molecular biology and cell physiology to clinical issues regarding renal function and dysfunction. If you research the development of normal renal function or the mechanisms underlying renal disease, Seldin & Giebisch's *The Kidney* is your number one source for information. \* Offers the most comprehensive coverage of fluid and electrolyte regulation and dysregulation in 51 completely re-

vised chapters unlike Brenner & Rector's *The Kidney* which devotes only 7 chapters to this topic. \* Includes 3 sections, 31 chapters, devoted to regulation and disorders of acid-base homeostasis, and epithelial and nonepithelial transport regulation. Brenner & Rector's only devotes 5 chapters to these topics. \* Previous three editions edited by Donald Seldin and Gerhard Giebisch, world renowned names in nephrology. The title for the fourth edition has been changed to reflect their considerable work on previous editions and they have also written the forward for this edition. \* Over 20 million adults over age 20 have chronic kidney disease with the number of people diagnosed doubling each decade making it America's ninth leading cause of death.

Complete Review for NCLEX-RN® is a comprehensive review of all content you will encounter in your undergraduate nursing education. Emphasis is on content you will see on the actual exam. The text and CD-ROM include over 4400 questions with rationales, and every question is coded to reflect the current test plan. All questions are written at the application and analysis levels of learning to foster critical thinking. The CD-ROM accompanying this test contains software that allows the student to practice and learn in a similar environment to the actual exam. The choices of learning or test modes on the CD-ROM further enhance the testing experience. A PDA download of 500 questions allows for additional practice and portability!

The Pocket Book is for use by doctors, nurses and other health workers who are responsible for the care of young children at the first level referral hospitals. This second edition is based on evidence from several WHO updated and published clinical guidelines. It is for use in

both inpatient and outpatient care in small hospitals with basic laboratory facilities and essential medicines. In some settings these guidelines can be used in any facilities where sick children are admitted for inpatient care. The Pocket Book is one of a series of documents and tools that support the Integrated Management.

*Acidosis: Clinical Aspects and Treatment with Isotonic Sodium Bicarbonate* provides a connected exposition for the use of hospital physicians and general practitioners of the clinical aspect and treatment of acidosis. After briefly dealing with the history of clinical investigation of acidosis and treatment, this five-chapter book goes on discussing the clinical symptoms and form, causes, and complications of acidosis. The next chapter describes the five treatment options for acidosis, including using an isotonic, alkaline, glucose, physiological sodium chloride solutions and alkalosis. Other chapters examine acidosis under physiological and pathological conditions. The concluding chapter surveys the micro- and macro-techniques, as well as Van Slyke's apparatus for bicarbonate content determination of the plasma or the serum. This book will prove useful to clinicians, gastrologists, and general medical practitioners.

An explosive increase in the knowledge of the effects of chemical and physical agents on biological systems has led to an increased understanding of normal cellular functions and the consequences of their perturbations. The 14-volume Second Edition of *Comprehensive Toxicology* has been revised and updated to reflect new advances in toxicology research, including content by some of the leading researchers in the field. It remains the premier resource for toxicolo-

gists in academia, medicine, and corporations. Comprehensive Toxicology Second Edition provides a unique organ-systems structure that allows the user to explore the toxic effects of various substances on each human system, aiding in providing diagnoses and proving essential in situations where the toxic substance is unknown but its effects on a system are obvious. Comprehensive Toxicology Second Edition is the most complete and valuable toxicology work available to researchers today. Contents updated and revised to reflect developments in toxicology research Organized with a unique organ-system approach Features full color throughout Available electronically on [sciencedirect.com](http://sciencedirect.com), as well as in a limited-edition print version

Empower your staff to improve safety, quality and compliance with the help of new guidelines and standards. We've updated every chapter of this popular review of the fundamentals of preparing sterile products in hospital, home-care, and community pharmacy settings to reflect the most recent revisions to USP . Included are the latest guidelines for the compounding process, quality assurance methods, and comprehensive coverage of all aspects of the dispensing process. Comprehensive documentation for the guidelines is included in the appendices. Chapters new to this edition focus on: Gap analysis and action plans Safe use of automatic compounding devices Cleaning and disinfecting Radiopharmaceuticals as CSPs Allergen extracts as CSPs.

The sixth edition of this best-selling and trusted dictionary has been fully updated and revised to take account of recent developments in nursing practices and related fields. Updates cover the fields of general nursing, statistics, common scales and indexes, religion and spirituali-

ty, and commonly used abbreviations. Fully revised, this dictionary provides comprehensive coverage of the ever-expanding vocabulary of the nursing professions. In addition to specifically nursing terms, there are many entries in the fields of medicine, anatomy, physiology, psychiatry, nutrition, and pharmacology (including new drugs recently introduced into medical practice). Over 10,000 clear and concise entries, all written by medical and nursing specialists, cover the theory and practice of nursing. 100 Helpful illustrations and 15 appendices covering nutritional requirements, reference values for biochemical and haematological data, interpretation of body mass index, and much more, make this an invaluable reference tool for all nursing students and professionals. It is also small enough to be portable and bound in durable flexi-cover.

Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

This volume presents a sound foundation for understanding abstract concepts (physical properties such as fugacity, or chemical processes, such as distillation) of phase and reaction equilibria, and

shows you how to apply these concepts to solve practical problems using numerous, clear examples. The book encourages the use of MATHCAD to write programs specific to each problem, enabling you to easily track mistakes and understand the order of magnitude of the various quantities involved. Provides guidelines in order to choose the 'best' equation of state suitable for the particular situation. Includes up-to-date information, comprehensive in-depth content and current examples in each chapter. Provides the right tools in order to and encourages you to use MATHCAD to write your own specific programs. Includes many well organized problems (with solutions), which are extensions of the examples enabling conceptual understanding to quantitative/real problem solving. Includes all mathematical background required for solving problems encountered in phase and reaction equilibria. Provides a Solutions Manual (for instructors in pdf form) allowing the use of the book in advanced thermodynamic courses.

*Pharmaceutical Calculations: A Conceptual Approach*, is a book that combines conceptual and procedural understanding for students and will guide you to master prerequisite skills to carry out accurate compounding and dosage regimen calculations. It is a book that makes the connection between basic sciences and pharmacy. It describes the most important concepts in pharmaceutical sciences thoroughly, accurately and consistently through various commentaries and activities to make you a scientific thinker, and to help you succeed in college and licensure exams. Calculation of the error associated with a dose measurement can only be carried out after understanding the concept of accuracy versus precision in a measurement. Similarly, full appreciation of drug absorption and distribution to tis-

ues can only come about after understanding the process of transmembrane passive diffusion. Early understanding of these concepts will allow reinforcement and deeper comprehension of other related concepts taught in other courses. More weight is placed on the qualitative understanding of fundamental concepts, like tonicity vs osmotic pressure, diffusion vs osmosis, crystalloids vs colloids, osmotic diuretics vs plasma expanders, rate of change vs rate constants, drug accumulation vs drug fluctuation, loading dose vs maintenance dose, body surface area (BSA) vs body weight (BW) as methods to adjust dosages, and much more, before considering other quantitative problems. In one more significant innovation, the origin and physical significance of all final forms of critical equations is always described in detail, thus, allowing recognition of the real application and limitations of an equation. Specific strategies are explained step-by-step in more than 100 practice examples taken from the fields of compounding pharmacy, pharmaceuticals, pharmacokinetics, pharmacology and medicine.

For over fifty years the *Methods in Enzymology* series has been the critically acclaimed laboratory standard and one of the most respected publications in the field of biochemistry. The highly relevant material makes it an essential publication for researchers in all fields of life and related sciences. This volume features articles on the topic of osmosensing and osmosignaling written by experts in the field.

*Evidence-Based Practice of Critical Care*, 2nd Edition, presents objective data and expert guidance on managing critically ill patients in unique question-based chapters that focus on best practices. Now thoroughly updated by Drs. Clifford

S. Deutschman, Patrick J. Neligan, and nearly 200 critical-care experts, this highly regarded title remains the only book of its kind that provides a comprehensive framework for translating evidence into practice, making it a valuable resource for both residents and practitioners. Tap into the expertise of nearly 200 critical-care experts who discuss the wide variety of clinical options in critical care, examine the relevant research, and provide recommendations based on a thorough analysis of available evidence. Think through each question in a logical, efficient manner, using a practical, consistent approach to available management options and guidelines. Find the information you need quickly with tables that summarize the available literature and recommended clinical approaches. Navigate a full range of challenges from routine care to complicated and special situations. Stay up to date with new issues and controversies such as the redefinition of sepsis • changing approaches to fluid administration • immune suppression in sepsis • monitoring the microcirculation • the long-term sequelae of critical illness • minimizing ventilator associated lung injury • the benefits of evidence-based medicine management guidelines • rapid response teams • and more. Benefit from all-new sections covering persistent critical illness and the role of advanced practice nurses and physician assistants in the ICU.

The Oxford Dictionary of Sports Science and Medicine provides comprehensive and authoritative definitions of nearly 8000 sports science and sports medicine terms. All major areas are covered, including exercise psychology, sports nutrition, biomechanics, anatomy, sports sociology, training principles and techniques and sports injury and rehabilitation. The

dictionary will be an invaluable aid to students, coaches, athletes and anyone wanting instant access to the scientific principles, anatomical structures, and physiological, sociological and psychological processes that affect sporting performance. It will also be of interest to the general reader interested in sports science and medicine terminology.

This volume presents standard approaches and the most recent technical advances used to study innate immune activation. Chapters detail the assessment of macrophage activation, measuring innate immune responses to bacterial viability, quantification of secreted proteins, reporter systems, protocols examining specific innate immune activation by TLRs, RLRs, cGAS, and inflammasomes. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *Innate Immune Activation: Methods and Protocols* aims to be a useful and informative reference tool for further study into this vital field.

*Oral Physiology* contains the proceedings of the Wenner-Gren Center International Symposium held in Stockholm, Sweden in August 1971. Contributors explore common problems and trends in oral physiology, from the regulation of salivary glands and the role of electrolytes in the formation of saliva to neural mechanisms underlying salivary excretion, the effect of citric acid on parotid flow, and secretion of salivary glycoproteins. Circulation of the tongue, monitoring of oral circulation, physiology of mastication, and development of fetal gustatory receptors are also covered. This volume

consists of 27 chapters and begins with a discussion of mechanisms underlying control of different types of effector cells that comprise the salivary gland. The reader is methodically introduced to the nerves to the parotid gland, electrolyte and water transport in salivary glands, neural mechanisms controlling the excretion of saliva, and how the function of salivary fibers is affected by different conditions situated along the course of the seventh and ninth cranial nerves. The next chapters focus on the effect of citric acid on the variance of the parotid flow rate, ductal transport processes and glandular effects of neurotransmitters and pharmacological agents, and neuro-effector sites in salivary glands. The book concludes by presenting experimental evidence indicating that nerve impulses can be recorded from dentine. This book will be useful for researchers and teachers not only of oral physiology, but also of odontology and medicine in general.

The cytoskeleton is a highly dynamic intracellular platform constituted by a three-dimensional network of proteins responsible for key cellular roles as structure and shape, cell growth and development, and offering to the cell with "motility" that being the ability of the entire cell to move and for material to be moved within the cell in a regulated fashion (vesicle trafficking). The present edition of Cytoskeleton provides new insights into the structure-functional features, dynamics, and cytoskeleton's relationship to diseases. The authors' contribution in this book will be of substantial importance to a wide audience such as clinicians, researchers, educators, and students interested in getting updated knowledge about molecular basis of cytoskeleton, such as regulation of cell vi-

tal processes by actin-binding proteins as cell morphogenesis, motility, their implications in cell signaling, as well as strategies for clinical trial and alternative therapies based in multitargeting molecules to tackle diseases, that is, cancer.

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

This book is a comprehensive guide to Biodentine™, an innovative biocompati-

ble and bioactive material based on pure tricalcium silicate that can permanently replace dentin and can also serve as a temporary enamel substitute. Although Biodentine™ has been widely used across the world for the past decade, this is the first book to be devoted to its properties, interactions with the soft and hard tissues, and its multiple clinical applications. The coverage encompasses applications in primary and permanent teeth, in specialties as diverse as restorative dentistry, endodontics, paediatric dentistry, dental traumatology, and prosthetic dentistry. Biodentine™ application both in vital pulp therapy and endodontic procedures is illustrated and clinical step by step protocols are provided. The book provides a detailed update on Biodentine™ use to preserve the pulp vitality in direct/indirect pulp capping, pulpotomy and irreversible pulpitis treatment. It also details Biodentine™ use for non-vital teeth treatment in indications such as root/furcation perforation repair, apexification as well as in regenerative endodontic procedures. Biodentine™: Properties and Clinical Applications will be a rich source of guidance and information for all dentists as well as dental students and academics.

This volume presents a unique compilation of reviews on cell volume regulation in health and disease, with contributions from leading experts in the field. The topics covered include mechanisms and signaling of cell volume regulation and the effect of cell volume on cell function, with special emphasis on ion channels and transporters, kinases and gene expression. Several chapters elaborate on how cell volume regulatory mechanisms participate in the regulation of epithelial transport, urinary concentration, metabolism, migration, cell proliferation and apoptosis. Last but not least, this

publication is an excellent guide to the role of cell volume in the pathophysiology of hypercatabolism, diabetes mellitus, brain edema, hemoglobinopathies, tumor growth and metastasis, to name just a few. Providing deeper insights into an exciting area of research which is also of clinical relevance, this publication is a valuable addition to the library of those interested in cell volume regulation.

This book is dedicated to international cooperation, understanding and peace. It is the end result of several years of cooperative work between scientists of three countries: the United States, Germany, and Portugal. The work presented, however, draws from a much broader base, hopefully achieving the objective of NATO Advanced Research Workshops, which have been established to allow and stimulate the exchange of new ideas and the synthesis of information by scientists of NATO countries. The tasks of the workshop were several; to review established methodologies that have provided insight into ecosystem function and adaptations of plants in mediterranean climate zones; to examine new methodologies that have recently been applied in ecological studies and have provided new types of information; to summarize recent studies in mediterranean regions of plant water relations, photosynthesis and production, mineral nutrition, plant growth and development, and response to fire; to stimulate in particular an exchange of information among scientists of European Mediterranean countries; and to discuss means by which all of these objectives might be even more effectively achieved in the future through cooperative international research efforts. This variety of themes is clearly evident in the layout of the book. Held in Sesimbra, Portugal in October of

1985, the workshop took place in a .. For almost a decade, quantitative NMR spectroscopy (qNMR) has been established as valuable tool in drug analysis. In all disciplines, i. e. drug identification, impurity profiling and assay, qNMR can be utilized. Separation techniques such as high performance liquid chromatography, gas chromatography, super fluid chromatography and capillary electrophoresis techniques, govern the purity evaluation of drugs. However, these techniques are not always able to solve the analytical problems often resulting in insufficient methods. Nevertheless such methods find their way into international pharmacopoeias. Thus, the aim of the book is to describe the possibilities of qNMR in pharmaceutical analysis. Beside the introduction to the physical fundamentals and techniques the principles of the application in drug analysis are described: quality evaluation of drugs, polymer characterization, natural products and corresponding reference compounds, metabolism, and solid phase NMR spectroscopy for the characterization drug substances, e.g. the water content, polymorphism, and drug formulations, e.g. tablets, powders. This part is accompanied by more special chapters dealing with representative examples. They give more detailed information by means of concrete examples. Combines theory, techniques, and concrete applications—all of which closely resemble the laboratory experience Considers international pharmacopoeias, addressing the concern for licensing Features the work of academics and researchers, appealing to a broad readership Get quick answers to the most important clinical questions with Duke's Anesthesia Secrets, 5th Edition! Authors James Duke, MD and Brian M. Keech, MD present this easy-to-read, bestselling re-

source that uses the popular and trusted Secrets Series® Q&A format. It provides rapid access to the practical, "in-the-trenches" know-how you need to succeed - both in practice and on board and recertification exams. Zero in on key information with bulleted lists, tables, mnemonics, illustrations, practical tips from the authors, and "Key Points" boxes that provide a concise overview of important board-relevant content. Review essential material efficiently with the "Top 100 Secrets in Anesthesiology" - perfect for last-minute study or self-assessment. Get the evidence-based guidance you need to provide optimal care for your patients - ideal for medical students, residents, fellows, and practitioners. Apply all the latest advances in techniques, technology, and pharmacology, and explore effective solutions to a full range of clinical issues in anesthesiology. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and tables from the book on a variety of devices.

Of the thousands of novel compounds that a drug discovery project team invents and that bind to the therapeutic target, typically only a fraction of these have sufficient ADME/Tox properties to become a drug product. Understanding ADME/Tox is critical for all drug researchers, owing to its increasing importance in advancing high quality candidates to clinical studies and the processes of drug discovery. If the properties are weak, the candidate will have a high risk of failure or be less desirable as a drug product. This book is a tool and resource for scientists engaged in, or preparing for, the selection and optimization process. The authors describe how properties affect in vivo pharmacological activity and impact in vitro assays. Individual drug-like prop-

erties are discussed from a practical point of view, such as solubility, permeability and metabolic stability, with regard to fundamental understanding, applications of property data in drug discovery and examples of structural modifications that have achieved improved property performance. The authors also review various methods for the screening (high throughput), diagnosis (medium throughput) and in-depth (low throughput) analysis of drug properties. \* Serves as an essential working handbook aimed at scientists and students in medicinal chemistry \* Provides practical, step-by-step guidance on property fundamentals, effects, structure-property relationships, and structure modification strategies \* Discusses improvements in pharmacokinetics from a practical chemist's standpoint

The only text in the market written specifically for Diploma of Nursing students in Australia and New Zealand. Written by Gabrielle Koutoukidis, Kate Stainton and Jodie Hughson, *Tabbner's Nursing Care: Theory and Practice*, 7th edition, provides a solid foundation of theoretical knowledge and skills for nursing students embarking on an Enrolled Nurse career. Reflecting the current issues and scope of practice for Enrolled Nurses in Australia, this new edition focuses on the delivery of person-centred care, emphasises critical thinking throughout and demonstrates the application of the decision-making framework across multiple scenarios. Visit [evolve.elsevier.com/AU/Koutoukidis/Tabbner](http://evolve.elsevier.com/AU/Koutoukidis/Tabbner): eBook on VitalSource Teaching resources Image collection - all figures and tables from the textbook Test banks Student resources Answer guides to: o Case studies o Critical thinking exercises o Decision-making framework exercises o Review questions

Australian Clinical Skills videos demonstrating core skills to help you link the theory to practice Weblinks Two new chapters: o Nursing informatics and technology in healthcare o Quality and safety in healthcare 83 Clinical Skills aligned with the new 2016 Nursing and Midwifery Board of Australia Enrolled Nurse (EN) Standards for Practice to help you understand the skill and translate it into effective clinical practice Exercises on the decision-making framework for the EN Examples of progress notes and nursing care plan documentation Aligned with the HLT Health Training Package Supported by a NEW companion skills workbook: Essential Enrolled Nursing Skills for Person-Centred Care Includes eBook on VitalSource

The Principles of Biology sequence (BI 211, 212 and 213) introduces biology as a scientific discipline for students planning to major in biology and other science disciplines. Laboratories and classroom activities introduce techniques used to study biological processes and provide opportunities for students to develop their ability to conduct research.

Pharmaceutical and clinical calculations are critical to the delivery of safe, effective, and competent patient care and professional practice. *Pharmaceutical and Clinical Calculations, Second Edition* addresses this crucial component, while emphasizing contemporary pharmacy practices. Presenting the information in a well-organized and easy-to-understand manner, the authors explain the principles of clinical calculations involving dose and dosing regimens in patients with impaired organ functions, aminoglycoside therapy, pediatric and geriatric dosing, and radiopharmaceuticals with appropriate examples. Each chapter begins with an introduction to the topic, followed by a comprehensive discussion. Key con-

cepts are highlighted throughout the book for easy retrieval. The examples presented in the text reflect the practice environment in community, hospital, and nuclear pharmacy settings, and the clinical problems presented reflect a direct application of underlying theoretical principles and discussions. *Pharmaceutical and Clinical Calculations, Second Edition* is an essential tool for any practitioner who needs to reinforce their knowledge of the subject and is a valuable study guide for the Pharmacy Board examination.

Focusing on the needs of allied health and nursing majors, this engaging book is ideal for students who have had no pri-

or exposure to chemistry. The author takes the time to explain how to do tasks that students find difficult, rather than just providing terse descriptions. Emphasizing problem-solving techniques without skipping steps and using terms students can grasp, the book takes the most direct path to biomolecules and metabolic processes, provides a wealth of worked examples to help students understand key chemical concepts, includes novel and relevant Health Notes in the margins, and weaves biological and medical applications throughout. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.