Shargel Applied Biopharmaceutics 6th Edition

New sections on dosing strategies in all chapters. New chapter on sirolimus under the Immunosuppressants section. Essential information on drug dosing in special populations, including patients with renal and hepatic disease, obesity, and congestive heart failure. 30% of chapters extensively revised, others lightly updated

This issue of Critical Care Clinics, guest edited by Dr. Janice L. Zimmerman, focuses on Toxicology. This is one of four issues each year selected by the series consulting editor, Dr. John Kellum. Articles in this issue include, but are not limited to: Pharmacokinetic and pharmacodynamic principles for toxicology, Use of extracorporeal techniques in poisonings, Drugs of Abuse, Cardiovascular Drug Toxicity, Anticoagulant and Anti-platelet Drug Toxicity and Psychotropic Agents.

Athletic trainers have a responsibility to provide high-quality pharmaceutical care while meeting both legal and ethical requirements. Clinical Pharmacology in Athletic Training empowers athletic trainers with a functional understanding of pharmacology that enables them to formulate a treatment plan intended to mitigate disease and improve the overall health of their patients. This text incorporates the most up-to-date content from the 2020 Commission on Accreditation of Athletic Training Education (CAATE) standards, and it emphasizes interprofessional practice to enable future and current athletic trainers to collaborate with other health professionals in a manner that optimizes the quality of care. Clinical Pharmacology in Athletic Training begins by addressing drug legislation and the legal aspects of the athletic trainer's role in sport medication. The text provides an overview of pharmacokinetics and pharmacodynamics with an emphasis on concepts relevant to clinical practice. Students are introduced to the generic and brand names, general classifications, and appropriate administration of drugs and are guided toward appropriate online reference materials. Part II of this text describes common medications for pain, inflammation, and infections. Part III includes medications for specific conditions, including respiratory, cardiovascular, gastrointestinal, neurological, gynecological, and mental health conditions. The text also includes current information on opioid analgesics, cannabis, and cannabinoid-based medications. Clinical Pharmacology in Athletic Training teaches students to administer appropriate pharmacological agents for the management of the patient's condition. The information includes indications, contraindications, dosing, interactions, and adverse reactions. The following features are included to aid in the learning process: Chapter objectives set the stage for the main topics covered in the chapter. Key terms are boldfaced to indicate terms of special importance, and a glossary of definitions is included at the back of the book. Red Flag sidebars highlight warnings and precautions for certain medications or medicolegal issues. Evidence in Pharmacology sidebars highlight recent research regarding medications. Clinical Application sidebars present real-life stories from the field of athletic training. Case studies highlight specific therapeutic medication applications and are accompanied by questions that prompt readers to think critically about the issues presented. Quick reference drug tables describe medication types, generic and brand names, pronunciations, common indications, and other special considerations for the athletic trainer. Over the past decade, there has been an increased emphasis on pharmacology in athletic training. Clinical Pharmacology in Athletic Training will equip students with appropriate skills and competencies, prepare them to meet patient needs, and enable them to work in interprofessional teams.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. A complete practice-oriented introduction to physical pharmacy Written to clearly and simply explain how drugs work, this textbook explores the fundamental physicochemical attributes and processes important for understanding how a drug is transformed into a usable product that is administered to a patient to reach its pharmacological target, and then exists the body. Applied Physical Pharmacy, Third Edition begins with a review of the key biopharmaceutics concepts of drug liberation, absorption, distribution, metabolism, and excretion. These concepts, and others, set the framework for the subsequent chapters that describe physicochemical properties and process related to the fate of the drug. Other physical pharmacy topics important to drug formulation are discussed in the chapters that follow, which describe dispersal systems, interfacial phenomena, and rheology. The textbook concludes with an overview of the principles of kinetics that are important for understanding the rates at which many of the processes discussed in previous chapters occur. Chapters in this Third Edition retain the acclaimed learning aids of previous editions, including Learning Objectives, Practice Problems, Key Points, and Clinical Questions. In order to be of greater value to the pharmacy student, more clinical questions have been added, and many tables have been updated with more current products and excipients.

Regenerative Medicine and Plastic Surgery

Toxicology, An Issue of Critical Care Clinics, E-Book

Inpatient and Outpatient Management for Every Clinician

Drug Delivery

Concepts in Clinical Pharmacokinetics

In this era of increased pharmaceutical industry competition, success for generic drug companies is dependent on their ability to manufacture therapeutic-equivalent drug products in an economical and timely manner, while also being cognizant of patent infringement and other legal and regulatory concerns. Generic Drug Product Development: Solid Oral Dosage Forms, Second Edition presents in-depth discussions from more than 30 noted specialists describing the development of generic drug products—from the raw materials to the development of a therapeutic-equivalent drug product to regulatory approval. Major topics discussed include: Active pharmaceutical ingredients Experimental formulation development, including a new section on Quality by Design (QbD) Scale-up Commercial product formulation Quality control and bioequivalence Drug product performance ANDA regulatory process Post-approval changes Post-marketing surveillance Legislative and patent challenges This second edition also contains a new chapter on the relationship between the FDA and the United States Pharmacopeia and in Chapter 4, using specific examples, the application of Quality by Design (QbD) during formulation development is examined.The book is a thorough guide to the development of solid oral generic dosage formulations. This textbook is ideal for the pharmaceutical industry, graduate programs in pharmaceutical sciences, and health professionals working in the area of generic drug development.

The textbook that originated the use of the complete medical record to teach terminology has been revised! New features include a new full-color design; a bonus CD-ROM packaged with the text, including fun assessment exercises and audio pronunciations; and flashcards bound into the text for student self-study. The free faculty ancillary package includes an Instructor's Manual with Instructor's Resource CD-ROM--which includes an imagebank and a test generator. A free transparency set is also available. Online Tutoring powered by Smarthinking--Free online tutoring, powered by Smarthinking, gives students access to expert nursing and allied health science educators whose mission, like yours, is to achieve success. Students can access live tutoring support, critiques of written work, and other valuable tools. Visit http: //thepoint.lww.com/Willis2e for more information on the text and to view sample pages.

Use your knowledge of pharmacology to enhance oral care! Pharmacology and Therapeutics for Dentistry, 6th Edition describes how to evaluate a patient's health and optimize dental treatment by factoring in the drugs they take. It explores the basic fundamentals of pharmacology, special topics such as pain control, fear and anxiety, and oral complications of cancer therapy, and most importantly, the actions of specific drug groups on the human body. Whether you're concerned about the drugs a patient is already taking or the drugs you prescribe for treatment, this book helps you reduce risk and provide effective dental care. An emphasis on the dental applications of pharmacology relates drugs to dental considerations in clinical practice. Dental aspects of many drug classes are expanded to include antibiotics, analgesics, and anesthetics. The Alternative Medicine in Dentistry chapter discusses chemicals used as alternative medicines and assesses their potential benefits and risks. The Nonopioid Analgesics chapter groups together non-opioid analgesics, nonsteroidal anti-inflammatory drugs, and antirheumatic and antigout drugs, making these easier to locate and study. Coverage of the endocrine system includes four separate chapters for the most comprehensive coverage. Drug Interactions in Clinical Dentistry appendix lists potential interactions between drugs a patient is taking for nondental conditions and drugs that may be used or prescribed during dental treatment, including effects and recommendations. Glossary of Abbreviations appendix includes the most common abbreviations used for drugs or conditions. New Pharmacogenetics and Pharmacogenomics chapter covers the effects of genetic traits of patients on their responses to drugs. A NEW introductory section offers tips for the study of dental pharmacology and relates pharmacology to dental considerations. An updated discussion of drug-drug interactions covers the harmful effects of mixing medications. Coverage of adverse effects and mechanisms of COX-2 inhibitors, antibiotic prophylaxis, and antiplaque agents explains the dental risks relating to common drug treatments.

Updated with new chapters and topics, this book provides a comprehensive description of all essential topics in contemporary pharmacokinetics and pharmacodynamics. It also features interactive computer simulations for students to experiment and observe PK/PD models in action. • Presents the essentials of pharmacokinetics and pharmacodynamics in a clear and progressive manner • Helps students better appreciate important concepts and gain a greater understanding of the mechanism of action of drugs by reinforcing practical applications in both the book and the computer modules • Features interactive computer simulations, available online through a companion website at: https://web.uri.edu/pharmacy/research/rosenbaum/sims/ • Adds new chapters on physiologically based pharmacokinetic models, predicting drug-drug interactions, and pharmacogenetics while also strengthening original chapters to better prepare students for more advanced applications • Reviews of the 1st edition: "This is an ideal textbook for those starting out ... and also for use as a reference book ...." (International Society for the Study of Xenobiotics) and "I could recommend Rosenbaum's book for pharmacology students because it is written from a perspective of drug action . . . Overall, this is a well-written introduction to PK/PD .... " (British Toxicology Society Newsletter)

Applied Physical Pharmacy, Third Edition

Rowland and Tozer's Clinical Pharmacokinetics and Pharmacodynamics: Concepts and Applications

Toxicology of the Gastrointestinal Tract

From Action Systems to Distributed Systems

Pharmacology for Nurses

Understanding the science of pharmacokinetics is a challenge for many pharmacy students and practitioners. Concepts in Clinical Pharmacokinetics, now in its 7th edition, has helped thousands by simplifying this essential, but complex, subject to reflect current practice. The 7th edition has been revised by Robin Southwood, PharmD, BC-ADM, CDE; Virginia H. Fleming, PharmD, BCPS; and Gary Huckaby, PharmD; all experts in clinical pharmacy education. Together, they have updated and expanded the text to include the latest information and insights on concepts through extensive use of correlates, figures, and review questions. Inside you will find: • 15 easy-to-follow lessons, perfect for a semester • Practice quizzes to help chart progress • Enhanced discussion of hemodialysis • A phenytoin "cheat sheet" to help you through the calculations maze • New vancomycin cases based on higher desired vancomycin levels and trough-only dose estimations • Expanded information on modified diet in renal disease formula versus Cockcroft-Gault formula methods • Factors to consider when choosing a dosing/body weight for various equations • Updated clinical correlates, discussion points, references, and questions/answers Concepts in Clinical Pharmacokinetics is the fundamental reference for learning the basic, foundational pharmacokinetics concepts and how to apply them in clinical practice.

Extensive coverage of the Internet as a source of and distribution means for drug information, and detailed sections on evaluating medical literature from clinical trials Audience includes Pharmacists, Pharmacy students and Pharmacy schools Updated to include using PDAs for medication information Covers the ethical and legal aspects of drug information management Nothing else like it on the market

Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. Updated with the latest clinical advances, Rowland and Tozer's Clinical Pharmacokinetics and Pharmacodynamics, Fifth Edition, explains the relationship between drug administration and drug response, taking a conceptual approach that emphasizes clinical application rather than science and mathematics. Bringing a real-life perspective to the topic, the book simplifies concepts and gives readers the knowledge they need to better evaluate drug applications. Key updates reflect advances in PK/PD as related to clinical decision making and drug research and development. An emphasis on the clinical relevance of drugs makes the book especially applicable to pharmacy students preparing for a career in clinical practice. Hundreds of graphs and tables provide visual representations of key pharmacokinetic/pharmacodynamic principles and effects. More than 200 carefully written study questions, with answers and in-depth explanations, help readers enhance their conceptual understanding and learn and retain key information. New and updated examples connect chapter content to real-world settings. Interactive online simulations give students practice using different pharmacokinetic/pharmacodynamic models and parameters. Enrich Your eBook Reading Experience with Enhanced Video, Audio and Interactive Capabilities! Read directly on your preferred device(s), such as computer, tablet, or smartphone Easily convert to audiobook, powering your content with natural language text-to-speech Adapt for unique reading needs, supporting learning disabilities, visual/auditory impairments, second-language or literacy challenges, and more

A Revolutionary New Undergraduate Pharmacology Text for Nursing Students Add the 2014 Nursing Drug Handbook Mobile App Now Available on iTunes and Google Play Pharmacology for Nurses is a groundbreaking new text that teaches the basic concepts of pharmacology to undergraduate nursing students. The text focuses on critical need-to-know information and draws on the experience of fourteen contributing authors in the field of nursing. It takes a new approach to teaching the complex topic of pharmacology through its concise, digestible coverage of material, reader friendly design, and use of images and tables to reinforce content. This text is also intended as a reference for other nursing courses and as part of the nursing professional s permanent reference library. Designed to reflect real-life clinical applications, Pharmacology for Nurses also provides a fundamental introduction to pharmacology for nursing students. The basics of pharmacokinetics and pharmacodynamics explained in rel"

The Language of Health Care

Drug Information

Generic Drug Product Development

Biological Concepts and Techniques in Toxicology

Applied Clinical Pharmacokinetics

This book is designed to present a comprehensive, state-of the-art approach to assessing and managing bariatric surgery and psychosocial care. Unlike any other text, this book focuses on developing a biopsychosocial understanding of patients' obesity journey and psychosocial factors contributing to their obesity and its management from an integrated perspective. Psychiatric Care in Severe Obesity takes a 360 approach by covering the disease's prevalence and relationship to psychiatric illness and social factors, including genetics, neurohormonal pathways and development factors for obesity. This book presents evidence and strategies for assessing psychiatric issues in severe obesity and uses common psychiatric presentations to feature the impact on bariatric surgery and key assessment features for weight loss. Concluding chapters focus on evidence-based psychosocial treatments for supporting patients with weight loss and bariatric surgery and includes educational tools and checklists for assessment, treatment, and care. Experts on non-pharmacological interventions such as mindfulness, cognitive-behavioral therapy and nutrition education describe treatment approaches in each modality, concluding with pharmacological approaches for psychiatric conditions and eating pathology. Additional tools in the appendices support clinicians, making this the ultimate guide for managing psychiatric illness in patients suffering from severe obesity. As obesity continues to grow in prevalence as a medically recognized epidemic, Psychiatric Care in Severe Obesity serves a vital resource to medical students, psychiatrists, psychologists, bariatric surgeons, primary care physicians, dietitians, mental health nurses, social workers, and all medical professionals working with severely obese patients.

Now in its fourth edition, Pellock's Pediatric Epilepsy: Diagnosis and Therapy remains the gold standard for diagnosis, treatment, classification, and management of childhood epilepsies. With over 100 distinguished contributors from world-leading epilepsy programs, the long-awaited new edition maintains the breadth and scope the book is known for while significantly updating the science, practice, and therapeutic strategies that continue to move the field forward. At the center of this new edition is the totally reorganized and expanded section on age-related syndromes. There is a major emphasis on new genetic-based classifications and the clinical implications for identifying and managing the various subtypes. New chapters devoted exclusively to Panayiotopoulos syndrome, myoclonic status epilepticus, and autosomal dominant focal epilepsies, among others, cover even more ground than the last edition. Brand-new chapters in the drug and diet section cover perampanel, ezogabine, and lacosamide, while the existing chapters on major medical treatments have been comprehensively updated to reflect the latest trials and studies. Other sections contain new chapters on genetics, non-invasive functional mapping, sleep issues for pediatric epilepsy patients, and more. With more than 80 chapters, Pellock's Pediatric Epilepsy now contains a full discussion of the spectrum of epilepsy disorders, not just seizures. From basic mechanisms and epidemiology, through diagnosis and therapy, to quality of life issues, the new edition of this established reference covers every aspect of childhood epilepsy and will continue to be the definitive core text for all professionals involved in the field. New to the Fourth Edition: Every chapter thoroughly reviewed, revised, and updated Section on age-related syndromes completely reconfigured to align with new ILAE terminology and organization in classifying seizures and forms of epilepsy Major update on disease mechanisms and all treatments for epilepsy, including drugs Increased attention to special populations, including a heavily-updated chapter on the female epilepsy patient New final section covers the epilepsy spectrum, with new chapters on epilepsy and sleep, co-morbidities of childhood, behavioral influence of AEDs, and transitioning to adulthood

The third edition of this introductory text covers the factors which influence the release of the drug from the drug product and how the body handles the drug. A stronger focus has been placed on the basics with clear explanations and illustrated examples. There is also more information on statistics and population pharmacokinetics and new chapters on drug distribution, computer applications, enzyme kinetics and pharmacokinetics models.

A comprehensive textbook on the theoretical and practical applications of biopharmaceutics and pharmacokinetics The field's leading text for more than three decades Applied Biopharmaceutics & Pharmacokinetics, Sixth Edition provides you with a basic understanding of the principles of biopharmaceutics and pharmacokinetics and applies these principles to drug product development, drug product performance and drug therapy. The revised and updated sixth edition is unique in teaching basic concepts that relate to understanding the complex issues associated with safe and efficacious drug therapy. Written by authors who have both academic and clinical experience, Applied Biopharmaceutics & Pharmacokinetics will help you to: Understand the basic concepts in biopharmaceutics and pharmacokinetics. Use raw data and derive the pharmacokinetic models and parameters that best describe the process of drug absorption, distribution, and elimination Critically evaluate biopharmaceutic studies involving drug product equivalency and unequivalency Design and evaluate dosage regimens of drugs, using pharmacokinetic and biopharmaceutic parameters Detect potential clinical pharmacokinetic problems and apply basic pharmacokinetic principles to solve them Practical problems and clinical examples with discussions are included in each chapter to help you apply these principles to patient care and drug consultation situations. Chapter Objectives, Chapter Summaries, and Frequently Asked Questions along with additional application questions appear within each chapter to identify and focus on key concepts. Most of the chapters have been revised to reflect our current understanding of drug product performance, bioavailability, bioequivalence, pharmacokinetics, pharmacodynamics, and drug therapy.

Solid Oral Dosage Forms, Second Edition

Applied Biopharmaceutics and Pharmacokinetics

The Quantitative Basis of Drug Therapy

Targeting Chronic Inflammatory Lung Diseases Using Advanced Drug Delivery Systems

An Integrated Textbook and Computer Simulations

The landmark textbook on the theoretical and practical applications of biopharmaceutics and pharmacokinetics□now fully updated. Explains how to detect clinical pharmacokinetic problems and apply basic pharmacokinetic principles to solve them Helps you critically evaluate biopharmaceutic studies involving drug product equivalency and unequivalency Chapters have been revised to reflect the latest clinical perspectives on drug performance, bioavailability, bioequivalence, pharmacokinetics, pharmacodynamics, and drug therapy The field□s leading text for more than three decades, Applied Biopharmaceutics & Pharmacokinetics gets you up to speed on the basics of the discipline like no other resource. Practical problems and clinical examples with discussions are integrated within each chapter to help you apply principles to patient care and drug consultation situations. In addition, outstanding pedagogy, including chapter objectives, chapter summaries, and FAQs, plus additional application questions, identify and focus on key concepts. Written by authors who have both academic and clinical experience, Applied Biopharmaceutics & Pharmacokinetics shows you how to use raw data and formulate the pharmacokinetic models and parameters that best describe the process of drug absorption, distribution, and elimination. The book also helps you wet with pharmacokinetic and biopharmaceutic parameters to design and evaluate dosage regimens of drugs. In the seventh edition of this must-have interactive learning tool, most of the chapters are updated to reflect our current understanding of complex issues associated with safe and efficacious drug therapy.

Drug Delivery is the latest and most up-to-date text on drug delivery and offers an excellent working foundation for students and clinicians in health professions and graduate students including nursing, pharmacy, medicine, dentistry, as well as researchers and scientists. Presenting this complex content in an organized and concise format, Drug Delivery allows students to gain a strong understanding of the key concepts of drug delivery.This text focuses on the basic concepts of drug delivery while thoroughly examining various topics such as: CNS delivery Gene delivery Ocular delivery World-wide research on drug delivery Recent advances in drug deliveryA significant advancement has been made in the field of drug delivery. This text provides a detailed overview of drug delivery systems, routes of drug administration and development of various formulations. The cutting edge research being carried out in this field will be compiled and a focus on worldwide research on drug delivery and targeting at the molecular, cellular, and organ levels will also be summarized.Each new print copy includes access to the Navigate Companion Website including: Chapter Quizzes, Interactive Glossary, Crossword Puzzles , Interactive Flashcards, and Matching Exercises

This is a revised and very expanded version of the previous second edition of the book. "Pharmacokinetic and Pharmacodynamic Data Analysis" provides an introduction into pharmacokinetic and pharmacodynamic concepts using simple illustrations and reasoning. It describes ways in which pharmacodynamic and pharmacodynamic theory may be used to give insight into modeling questions and how these questions can in turn lead to new knowledge. This book differentiates itself from other texts in this area in that it bridges the gap between relevant theory and the actual application of the theory to real life situations. The book is divided into two parts; the first introduces fundamental principles of PK and PD concepts, and principles of mathematical modeling, while the second provides case studies obtained from drug industry and academia. Topics included in the first part include a discussion of the statistical principles of model fitting, including how to assess the adequacy of the fit of a model, as well as strategies for selection of time points to be included in the design of a study. The first part also introduces basic pharmacokinetic and pharmacodynamic concepts, including an excellent discussion of effect compartment (link) models as well as indirect response models. The second part of the text includes over 70 modeling case studies. These include a discussion of the selection of the model, derivation of initial parameter estimates and interpretation of the corresponding output. Finally, the authors discuss a number of pharmacodynamic modeling situations including receptor binding models, synergy, and tolerance models (feedback and precursor models). This book will be of interest to researchers, to graduate students and advanced undergraduate students in the PK/PD area who wish to learn how to analyze biological data and build models and to become familiar with new areas of application. In addition, the text will be of interest to toxicologists interested in learning about determinants of exposure and performing toxicokinetic modeling. The inclusion of the numerous exercises and models makes it an excellent primary or adjutant text for traditional PK courses taught in pharmacy and medical schools. A diskette is included with the text that includes all of the exercises and solutions using WinNonlin.

Biomedical & Pharmaceutical Sciences with Patient Care Correlations provides a solid foundation in the areas of science that pharmacy students most need to understand to succeed in their education and career. Offering a comprehensive overview of the biomedical and pharmaceutical sciences, it is an ideal primary or secondary textbook for introductory courses. Students can also use this text to refresh their scientific knowledge before beginning graduate study. Biomedical & Pharmaceutical Sciences with Patient Care Correlations includes 16 chapters that cover subjects ranging from cell biology and medicinal chemistry to toxicology and biostatistics. It also includes clinical correlations and integrated cases. Practical as well as informative, this essential reference relates the subject matter to the real world of pharmacy practice to assist students throughout their graduate studies and professional careers. Features Provides a comprehensive introduction to the biomedical and pharmaceutical sciences curriculum Serves as an ideal text for all introductory pharmacy courses Covers the topics that are most challenging for students Relates science to the real world of pharmacy practice Includes over 525 illustrations, photos, and figures

Medical Terminology

Practical Implementation of an Antibiotic Stewardship Program

An Integrated Approach

The Refinement Approach

Textbook of Organic Medicinal and Pharmaceutical Chemistry

Toxicology of the Gastrointestinal Tract focuses on the specifics of the mechanisms and adverse effects of xenobiotic agents and pharmaceuticals on the structure and function of the GI tract. The book focuses on a number of specific areas of intestinal research. Beginning with the well-recognized and major functions of nutrient absorption and its role as a protective barrier, the text elaborates on the expanding body of knowledge that relates to the intestines as a major metabolic and immunologic organ involved in the synthesis and degradation of both natural and foreign substances. It includes an overview of the function and dysfunction of the human absorptive process and the effects of microbial flora on these processes, as well as specific classes of toxicants that target the GI tract. The international panel of contributors presents a critical appraisal of the interactions of chemicals and drugs with the gastrointestinal system and the experimental methods and regions of research on which to focus future efforts. Providing a complete and multidisciplinary overview of the gastrointestinal system both in health and as it is involved in the toxicity of exogenous agents, Toxicology of the Gastrointestinal Tract brings together the current and growing knowledge of this critical organ system in a single volume.

Preceded by Concepts in clinical pharmacokinetics / Joseph T. DiPiro ... [et al.].

The most current, hands-on book in the field, Applied Clinical Pharmacokinetics The perfect textbook for pharmacy students learning the clinical application of pharmacokinetics, which is the mathematical tools for modifying doages. Students like that each chapter includes sample problems throughout the chapter, with a ton of practice problems at the end. Answers for the practice problems are in the back, but not detailed like the sample problems) *Changes in the 3/e includes: *All chapters updated and revised, as needed, including critical new references *Antibiotic individualization and monitoring sections increases use of pharmacodynamic parameters (Cmax/MIC, AUC24/MIC, Time above MIC) in addition to pharmacokinetic parameters to adjust dosages *Anticonvulsants section includes 5 new agents (Fosphenytoin, Lamotrigine, Levetiracetam, Oxcarbazepine, Eslicarbazepine) *Immunosuppressants section includes 1 new agent (Sirolimus), About the Book Text focuses on the latest standardized techniques and approaches to patient-specific dosing and provides up-to-date information on more recently moniotored drugs. Features Clear, useful coverage of drug dosing and drug monitoring Clear and concise summary of pharmacokinetic and pharmacodynamic concepts Practical help with calculations and equations Focus on the latest standardized techniques and approaches to patient-specific dosing Up-to-date information on more recently monitored drugs Essential information on drug dosing in special populations, including patients with renal and hepatic disease, obesity, and congestive heart failure All the information practitioners need on drug categories such as antibiotics, cardiovascular agents, anticonvulsants, and immunosuppressants Full coverage of drugs such as Aminoglycosides, Vancomycin, Digoxin, Phenytoin, Carbamazepine, Theophylline, Cyclosporine, Tacrolimus, and Lithium Student friendly approach to teaching pharmacokinetics--sample problems embedded into the text to allow for students to apply what they are learing. .

Highlighting the latest advances in molecular biology, mathematical modeling, quantitative risk assessment, and biopharmaceutical development, this reference presents how current scientific applications and methods impact and revolutionize mainstream toxicological research. Presenting findings from disciplines that will impact the future of toxicol

Pharmacokinetic and Pharmacodynamic Data Analysis: Concepts and Applications, Third Edition

Substance Abuse

Winter's Basic Clinical Pharmacokinetics

Biopharmaceutics & Pharmacokinetics

Comprehensive Pharmacy Review

This book presents the latest advances in the field of regenerative medicine in plastic surgery. It is the first authoritative reference documenting all the ways that plastic surgical practice and regenerative medicine science overlap or provide a road map for the future of both specialties. The Editors have provided a valuable service by gathering in one place the leading voices in these two fields in clear and concise manner.The first part introduces readers to essential principles of skin and soft tissue regeneration, e.g. the possibility of using mesenchymal stem cells for wound healing. Since bone serves as a supportive tissue in most of the body, bone regeneration is an important aspect of regenerative medicine; accordingly, the second part discusses the novel bone implants, activated bone grafts and bone tissue engineering. The book's third part, focusing on cartilage regeneration, includes chapters on e.g. stem cells and ear regeneration. In turn, part four addresses muscle and tendon regeneration: from tendon to bone and tendon to muscle, as well as aging in the realm of muscle regeneration. Lastly, part five highlights nerve regeneration, deepening surgeons' knowledge to help them successfully treat injuries to the peripheral neural system. Written by leading experts this book is an invaluable resource for researchers, students, beginners and experienced clinicians in a range of specialties. "With beautiful clinical images and artwork, this book will be a central companion to both practicing plastic surgeons who wish to remain abreast of oncoming technologic advances and regenerative medicine researchers who wish to understand the current state of the art of surgical reconstruction." - Geoffrey C. Gurtner, MD, FACS Johnson and Johnson Distinguished Professor of Surgery Professor (by courtesy) of Bioengineering and Materials Science Inaugural Vice Chairman of Surgery for Innovation Stanford University School of Medicine

This unique text helps students and healthcare professionals master the fundamentals of pharmacokinetics and pharmacodynamics. Written by distinguished international experts, it provides readers with an introduction to the basic principles underlying the establishment and individualization of dosage regimens and their optimal use in drug therapy. Up-to-date examples featuring currently prescribed drugs illustrate how pharmacokinetics and pharmacodynamics relate to contemporary drug therapy. Study problems at the end of each chapter help students and professionals gain a firm grasp of the material covered within the text.

Winter's Basic Clinical Pharmacokinetics helps readers apply pharmacokinetics and therapeutic drug monitoring to patient care. An easy-to-read, case-study format has made this text a favorite among students and clinicians. Divided into two parts, Part I reviews basic pharmacokinetic principles, and Part II illustrates the clinical application of these principles to common problems. Extensive explanations emphasize major concepts and accompany complex equations. Figures help visualize concepts NEW chapters include drug dosing in renal disease, pediatric considerations, and pharmacogenomics, as well as antifungals and expansion of the cytotoxic and immunosuppressant therapies Includes cases that address pediatric considerations and pharmacogenomics Updates include new information on the clinical use of serum drug concentrations New Learning Objectives at the beginning of each chapter highlight the key concepts

This book is written for any clinician who encounters substance abuse in a patient and wonders what to do. Experts from a cross-section of specialties and health professions provide up-to-date, evidence-based guidance on how non-expert clinicians can recognize, understand, and approach the management of substance abuse in their patients. They detail the range of treatments available and whether and how they work. The central importance of using a carefully selected multimodal approach that is tailored to the individual patient is emphasized throughout and illustrated in case scenarios from actual clinical practice.

A Rainbow Tree Story

Clinical Pharmacology in Athletic Training

Applied Biopharmaceutics & Pharmacokinetics, Sixth Edition

Psychiatric Care in Severe Obesity

Applied Biopharmaceutics & Pharmacokinetics, Seventh Edition

This practical reference guide from experts in the field details why and how to establish successful antibiotic stewardship programs.

Formal methods traditionally address the question of transforming software engineering into a mature engineering discipline. This essentially refers to trusting that the software-intensive systems that form our society's infrastructures are behaving according to their specifications. More recently, formal methods are also used to understand properties and evolution laws of existing complex and adaptive systems—man-made such as smart electrical grids or natural ones such as biological networks. A tribute to Professor Kaisa Sere's contributions to the field of computer science, From Action Systems to Distributed Systems: The Refinement Approach is the first book to address the impact of refinement through a multitude of formal methods ranging from Action Systems to numerous related approaches in computer science research. It presents a state-of-the-art review on the themes of distributed systems and refinement. A fundamental part of Kaisa Sere's research consisted of developing Action Systems, a formalism for modeling, analysing, and constructing distributed systems. Within the design of distributed systems, Kaisa Sere's main research focus was on refinement-based approaches to the construction of systems ranging from pure software to hardware and digital circuits. Presenting scientific contributions from renowned researchers around the world, this edited book consists of five sections: Modeling, Analysis, Proof, Refinement, and Applications. Each chapter has been thoroughly reviewed by experts in the field. The book covers both traditional aspects in formal methods research, as well as current and innovative research directions. It describes the transition from the strong theory of refinement to a methodology that can be applied in practice, with tool support. Examining industrial applications of the methods discussed, this book is a suitable resource for graduate students, researchers, and practitioners interested in using formal methods to develop distributed systems of quality.

Targeting Chronic Inflammatory Lung Diseases Using Advanced Drug Delivery Systems explores the development of novel therapeutics and diagnostics to improve pulmonary disease management, looking down to the nanoscale level for an efficient system of targeting and managing respiratory disease. The book examines numerous nanoparticle-based drug systems such as nanocrystals, dendrimers, polymeric micelles, protein-based, carbon nanotube, and liposomes that can offer advantages over traditional drug delivery systems. Starting with a brief introduction on different types of nanoparticles in respiratory disease conditions, the book then focuses on current trends in disease pathology that use different in vitro and in vivo models. The comprehensive resource is designed for those new to the field and to specialized scientists and researchers involved in pulmonary research and drug development. Explores recent perspectives and challenges regarding the management and diagnosis of chronic respiratory diseases Provides insights into how advanced drug delivery systems can be effectively formulated and delivered for the management of various pulmonary diseases Includes the most recent information on diagnostic methods and treatment strategies using controlled drug delivery systems (including nanotechnology)

Basic Pharmacokinetics and Pharmacodynamics

Biomedical & Pharmaceutical Sciences with Patient Care Correlations

Applied Clinical Pharmacokinetics 3/E

Pharmacology and Therapeutics for Dentistry - E-Book

Pellock's Pediatric Epilepsy