Shargel Applied Biopharmaceutics 5th Edition

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Applied Biopharmaceutics and Pharmacokinetics Leon Shargel 2005 Provides the reader with a basic understanding of the principles of biopharmaceutics and pharmacokinetics as applied to drug product development and drug therapy. The revised and updated fifth edition of this popular text remains unique in teaching the student the basic concepts that may be applied to understanding the complex issues associated with the processes of drug delivery and the essentials of safe and effective drug therapy.

Manual for Pharmacy Technicians Bonnie S. Bachenheimer 2010-09-10 The trusted training resource for pharmacy technicians at all levels. The role of pharmacy technicians is rapidly expanding, and demand for well-trained technicians has never been higher! Technicians are assuming more responsibilities and are taking on greater leadership roles. Quality training material is increasingly important for new technicians entering the field, and current technicians looking to advance. Look no further than the new 4th edition of the best-selling Manual for Pharmacy Technicians to master the practical skills and gain the foundational knowledge all technicians need to be successful. NEW chapters cover the latest essentials: Specialty Pharmacy Practice Communication and Teamwork Billing and Reimbursement Durable and Nondurable Medical Equipment, Devices, and Supplies NEW features include: Full color design, photos and illustrations enhance learning Rx for Success boxes share tips to help techs excel on the job Technology Topics highlight the latest in automation & technical areas Safety First features provide critical advice for enhancing safety & reducing errors Bolded key terms defined in chapter-level glossaries Streamlined contents divide book into 4 simple parts: introduction to pharmacy practice, foundation knowledge and skills, practice basics, and business applications Expanded self-assessment questions and calculations content Alone or with the new edition of the Pharmacy Technician Certification Review and Practice Exam, the Manual for Pharmacy Technicians, 4th Edition offers pharmacy technicians the most relevant, authoritative, easy-to-use guide in the field. Want more exercises and practice? Look for the NEW Workbook for the Manual for Pharmacy Technicians.

Comprehensive Pharmacy Review Leon Shargel 2012-10-01 n In this completely updated 8th edition, Comprehensive Pharmacy Review for NAPLEX provides a complete knowledge base necessary for pharmacy students, instructors, foreign graduates, and professionals to excel in their practices--and be fully equipped to tackle the NAPLEX competency test. Updated to conform with USP 797 regulations, the text provides expanded coverage of ever-developing areas of practice, including pain management, hepatic disorders, migraines, women's health, prescription dermatologic agents, geriatrics, and pediatrics. More than 60 print and online chapters--spanning chemistry, pharmaceutics, pharmacology, pharmacy practice, and drug therapy--are presented in outline form for easy use and offer helpful practice questions to aid your study. Comprehensive Pharmacy Review provides guidelines and tips for taking the NAPLEX, along with the NAPLEX blueprint. Furthermore, it lists the actual competency statements that the National Association of Boards of Pharmacy (NABP) uses in evaluation.

Goldfrank's Toxicologic Emergencies, Ninth Edition Lewis S. Nelson 2010-05-31 The most trusted, rigorous, and up-to-date toxicology resource and educational companion available – now in full color Goldfrank’s Toxicologic Emergencies continues to be the source you can turn to first for any poisoning or overdose. The text provides clear information on every aspect of toxicologic emergencies, from pharmacology to clinical presentation to management. Fully referenced and featuring a consistent organization, Goldfrank’s begins with an in-depth examination of general principles of medical toxicology. It then progresses to the biochemical principles and molecular basis of toxicology, and provides detailed insight into how xenobiotics affect vital signs, organs, and systems throughout the body. Next, a wide spectrum of clinically important exposures -- including drugs, plants, metals, household products, occupational and environmental xenobiotics are covered within logical categories for easy access to information. Finally, the book concludes with sections on principles of practicing clinical toxicology in today’s challenging healthcare environment. NEW TO THIS EDITION Full-color design and uniformly drawn figures clarify key concepts Special Considerations focus on decision-making in unique toxicologic circumstances, that influence clinical practice and have the potential to improve patient care Antidotes in Depth, following pertinent chapters, place each antidote in its proper context to ensure immediate availability of essential information relevant for clinical use More clinically-relevant figures and quick-reference tables Online learning center, available at www.goldfrankstoxicology.com, includes case studies, and a database of multiple choice questions that allow you to create a custom test for review and study. Every chapter is thoroughly rewritten and new chapters are added to reflect the very latest thinking in the field Here's why Goldfrank's is known worldwide as the field's leading text: General Approach to Medical Toxicology; The Biochemical and Molecular Basis of Medical Toxicology; The Pathophysiologic Basis of Medical; Toxicology: The Organ System Approach; The Clinical Basis of Medical Toxicology: Analgesics and Nonprescription Medications; Prescription Medications Psychopharmacologic Medications; Alcohols and Drugs of Abuse; Food Poisoning; Botanicals; Heavy Metals; Household Toxins; Pesticides; Occupational and Environmental Toxins; Toxic Envenomations; V. Special Populations; Preventive, Psychosocial, Nursing, Epidemiologic, Research & Legal Perspectives.

Lange Q&A Pharmacy, Tenth Edition Gary D. Hall 2011-03-11 The most effective and comprehensive pharmacy review for the NAPLEX® The ultimate pharmacy review covering every topic tested on the exam 1,500+ NAPLEX-style Q&As deliver unmatched preparation for the exam Build confidence and test-taking skills with more than

1500 NAPLEX®-style questions and tried-and-proven tips for boosting exam performance Learn from detailed explanations why answers are correct or incorrect Improve in every essential competency: pharmacology, pharmaceutical calculations, pharmacy, pharmaceutical compounding, biopharmaceutics and pharmacokinetics, health care equipment and supplies, and pharmaceutical care Recognize all frequently dispensed drugs, including the 200 generic drugs most likely to be dispensed by pharmacists EVERYTHING YOU NEED TO EXCEL ON THE NAPLEX® Questions that cover every topic found on the exam An entire chapter devoted to patient profiles, with each profile accompanied by a series of questions An informative description of the computer-based examination Two valuable appendices: frequently dispensed drugs and trade names versus generic names

Psychosocial Assessment and Treatment of Bariatric Surgery Patients James E. Mitchell 2012-04-27 Bariatric surgery plays an important role in the treatment of obesity; in this comprehensive resource the worldwide leaders of the field provide the most up-to-date information on the psychosocial issues that affect their patients. Included is an overview and history of surgical procedures, complete with illustrations, practical advice on topics such as physical activity and nutritional care after surgery, and essential information that allows clinicians to assist their clients as much as possible; for example, how pre-weight loss surgery psychosocial evaluations can serve as clinical interventions in their own right, and how structured interviews and questionnaires can be used in multiple contexts such as screening, treatment planning, and prognostic assessment. A distinctive chapter includes an overview of the special issues present in treating adolescents, who increasingly are the target of bariatric surgery procedures. This book is an essential reference for clinicians from the evaluation through the follow-up and aftercare of bariatric surgery patients.

Introduction to the Pharmaceutical Sciences Nita K. Pandit 2007 This unique textbook provides an introductory, yet comprehensive overview of the pharmaceutical sciences. It is the first text of its kind to pursue an interdisciplinary approach in this area of study. Readers are introduced to basic concepts related to the specific disciplines in the pharmaceutical sciences, including pharmacology, pharmaceutics, pharmacokinetics, and medicinal chemistry. In an easy-to-read writing style, the book provides readers with up-to-date information on pharmacogenomics and includes comprehensive coverage of industrial drug development and regulatory approval processes. Each chapter includes chapter outlines and critical-thinking exercises, as well as numerous tables and graphs. More than 160 illustrations complement the text.

Applied Biopharmaceutics & Pharmacokinetics, Fifth Edition Leon Shargel 2004-09-09 The most comprehensive text on the practical applications of biopharmaceuticals and pharmacokinetics! 4 STAR DOODY'S REVIEW! "The updated edition provides the reader with a solid foundation in the basic principles of pharmacokinetics and biopharmaceutics. Students will be able to apply the information to their clinical practice and researchers will find this to be a valuable reference. This modestly priced book should be the gold standard for student use."--Doody's Review Service The primary emphasis of this book is on the application and understanding of concepts. Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided, along with illustrative examples and practice problems and solutions to help the student gain skill in practical problem solving.

Monte Carlo Simulation for the Pharmaceutical Industry Mark Chang 2010-09-29 Helping you become a creative, logical thinker and skillful "simulator," Monte Carlo Simulation for the Pharmaceutical Industry: Concepts, Algorithms, and Case Studies provides broad coverage of the entire drug development process, from drug discovery to preclinical and clinical trial aspects to commercialization. It presents the theories and methods needed to carry out computer simulations efficiently, covers both descriptive and pseudocode algorithms that provide the basis for implementation of the simulation methods, and illustrates real-world problems through case studies. The text first emphasizes the importance of analogy and simulation using examples from a variety of areas, before introducing general sampling methods and the different stages of drug development. It then focuses on simulation approaches based on game theory and the Markov decision process, simulations in classical and adaptive trials, and various challenges in clinical trial management and execution. The author goes on to cover prescription drug marketing strategies and brand planning, molecular design and simulation, computational systems biology and biological pathway simulation with Petri nets, and physiologically based pharmacokinetic modeling and pharmacodynamic models. The final chapter explores Monte Carlo computing techniques for statistical inference. This book offers a systematic treatment of computer simulation in drug development. It not only deals with the principles and methods of Monte Carlo simulation, but also the applications in drug development, such as statistical trial monitoring, prescription drug marketing, and molecular docking.

Comparative Pharmacokinetics Jim E. Riviere 2011-01-14 Now in a revised edition, Comparative Pharmacokinetics: Principles, Techniques, and Applications presents the principles and techniques of comparative and veterinary pharmacokinetics in a detailed yet practical manner. Developed as a tool for ensuring that pharmacokinetics studies are properly designed and correctly interpreted, the book provides complete coverage of the conceptual basis of pharmacokinetics as used for quantifying biological processes from the perspectives of physiology and medicine. New chapters have been added on quantitative structure permeability relationships and bioequivalence, and a number of existing chapters have been significantly revised and expanded to provide a current resource for veterinary and comparative pharmacokinetics.

Applied Biopharmaceutics and Pharmacokinetics Leon Shargel 1993 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.

Pharmacokinetics and Pharmacodynamics of Nanoparticulate Drug Delivery Systems Jayvadan K. Patel

Basic Pharmacokinetics and Pharmacodynamics Sara E. Rosenbaum 2012-09-10 With its clear, straightforward presentation, this text enables you to grasp all the fundamental concepts of pharmacokinetics and pharmacodynamics. This will allow you to understand the time course of drug response and dosing regimen design. Clinical models for concentration and response are described and built from the basic concepts presented in earlier chapters. Your understanding of the material will be enhanced by guided computer exercises conducted on a companion website. Simulations will allow you to visualize drug behavior, experiment with different dosing regimens, and observe the influence of patient characteristics and model parameters. This makes the book ideal for self-study. By including clinical models of agonism, indirect drug effects, tolerance, signal transduction, and disease progression, author Sara Rosenbaum has created a work that stands out among

introductory-level textbooks in this area.You'll find several features throughout the text to help you better understand and apply key concepts: Three fictitious drugs are used throughout the text to progressively illustrate the development and application of pharmacokinetic and pharmacodynamic principles Exercises at the end of each chapter reinforce the concepts and provide the opportunity to perform and solve common dosing problems Detailed instructions let you create custom Excel worksheets to perform simple pharmacokinetic analyses Because this is an introductory textbook, the material is presented as simply as possible. As a result, you'll find it easy to gain an accurate, working knowledge of all the core principles, apply them to optimize dosing regimens, and evaluate the clinical pharmacokinetic and pharmacodynamic literature.

Rowland and Tozer's Clinical Pharmacokinetics and Pharmacodynamics: Concepts and Applications Hartmut Derendorf 2019-07-11 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.

Modern Pharmaceutics, Two Volume Set Alexander T. Florence 2016-04-19 This new edition brings you up-to-date on the role of pharmaceutics and its future paradigms in the design of medicines. Contributions from over 30 international thought leaders cover the core disciplines of pharmaceutics and the impact of biotechnology, gene therapy, and cell therapy on current findings. Modern Pharmaceutics helps you stay current

Clinical Pharmacology in Athletic Training Michelle Cleary 2021-10-12 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.

Renal Medicine and Clinical Pharmacy Rhiannon Braund 2020-07-08 This first volume of an exciting new book series offers a comprehensive and logically organized introduction to clinical pharmacy as applied to renal medicine. The volume opens with a review of renal pharmacokinetics: absorption; distribution; metabolism; and elimination, as well as drug dosing in renal impairment, and important knowledge specific to aging and renal impairment. Acute kidney injury receives extensive attention, including pre-renal, intra-renal, and post-renal injuries. The book also outlines the role of clinical pharmacy in chronic kidney disease and end stage renal failure. Additional chapters provide detailed information on the methods and pharmacokinetics of renal dialysis, and the epidemiology and management of drug-induced nephrotoxicity. The Advanced Clinical Pharmacy series provides a review of core pharmaceutical concepts, a foundation for optimizing pharmacotherapy, and an introduction to advanced clinical practice. The editors and contributors are international experts who distill the core knowledge of each specialty. The books offer real-world insights to benefit both new practitioners, and experienced pharmacists exploring new areas of clinical pharmacy

A Practical Handbook on the Pharmacovigilance of Antimalarial Medicines World Health Organization 2008 The Handbook is a detailed manual giving a step by step approach to undertaking the pharmacovigilance of antimalarials. It is intended to be a source of practical advice for pharmacovigilance centres. It provides information on spontaneous reporting of adverse drug reactions as a complement to other WHO publications. In addition, it provides details on how to conduct cohort event monitoring, which is a method of active safety surveillance collecting information on all adverse events occurring after treatment. It also details how to perform causality assessment and signal identification, applicable to both methods of surveillance.

ADMET for Medicinal Chemists Katya Tsaioun 2011-02-15 This book guides medicinal chemists in how to implement early ADMET testing in their workflow in order to improve both the speed and efficiency of their efforts. Although many pharmaceutical companies have dedicated groups directly interfacing with drug discovery, the scientific principles and strategies are practiced in a variety of different ways. This book answers the need to regularize the drug discovery interface; it defines and reviews the field of ADME for medicinal chemists. In addition, the scientific principles and the tools utilized by ADME scientists in a discovery setting, as applied to medicinal chemistry and structure modification to improve drug-like properties of drug candidates, are examined.

Modern Pharmaceutics Volume 1 Alexander T. Florence

2009-05-28 With over 100 illustrations, Volume 1 addresses the core disciplines of pharmaceutics (absorption, PK, excipients, tablet dosage forms, and packaging), and explores the challenges and paradigms of pharmaceutics. Key topics in Volume 1 include: • principles of drug absorption, chemical kinetics, and drug stability • pharmacokinetics • the effect of route of administration and distribution on drug action • in vivo imaging of dose forms: gamma scintigraphy, PET imaging NMR, MRI, etc. • powder technology • excipient design and characterization • preformulation • optimization techniques in pharmaceutical formulation and processing • disperse and surfactant systems • the solid state, tablet dosage forms, coating processes, and hard and soft shell capsules • parenteral products

Biomedical & Pharmaceutical Sciences with Patient Care Correlations Reza Karimi 2014-01-29 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

Physics of the Human Body Richard P. McCall 2010-05-09 Physics of the Human Body will help curious high school students, undergraduates with medical aspirations, and practicing medical professionals understand more about the underlying physics principles of the human body.

Drug Information Patrick M. Malone 2010-05-12 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

Pharmaceutical Manufacturing Handbook Shayne Cox Gad 2008-03-21 This handbook features contributions from a team of expert authors representing the many disciplines within science, engineering, and technology that are involved in pharmaceutical manufacturing. They provide the information and tools you need to design, implement, operate, and troubleshoot a pharmaceutical manufacturing system. The editor, with more than thirty years' experience working with pharmaceutical and biotechnology companies, carefully reviewed all the chapters to ensure that each one is thorough, accurate, and clear.

Applied Biopharmaceutics & Pharmacokinetics, Fifth Edition Leon Shargel 2004-08-19 The most comprehensive text on the practical applications of biopharmaceuticals and pharmacokinetics! 4 STAR DOODY'S REVIEW! "The updated edition provides the reader with a solid foundation in the basic principles of pharmacokinetics and biopharmaceutics. Students will be able to apply the information to their clinical practice and researchers will find this to be a valuable reference. This modestly priced book should be the gold standard for student use."--Doody's Review Service The primary emphasis of this book is on the application and understanding of concepts. Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided, along with illustrative examples and practice problems and solutions to help the student gain skill in practical problem solving.

Pharmaceutics Alekha Dash 2013-10-12 Pharmaceutics: Basic Principles and Application to Pharmacy Practice is an engaging textbook that covers all aspects of pharmaceutics with emphasis on the basic science and its application to pharmacy practice. Based on curricular guidelines mandated by the American Council for Pharmacy Education (ACPE), this book incorporates laboratory skills by identifying portions of each principle that can be used in a clinical setting. In this way, instructors are able to demonstrate their adherence to ACPE standards and objectives, simply by using this book. Written in a straightforward and student-friendly manner, Pharmaceutics enables students to gain the scientific foundation to understand drug physicochemical properties, practical aspects of dosage forms and drug delivery systems, and the biological applications of drug administration. Key ideas are illustrated and reinforced through chapter objectives and chapter summaries. A companion website features resources for students and instructors, including videos illustrating difficult processes and procedures as well as practice questions and answers. Instructor resources include Powerpoint slides and a full-color image bank. This book is intended for students in pharmaceutical science programs taking pharmaceutics or biopharmaceutics courses at the undergraduate, graduate and doctoral level. Chapter objectives and chapter summaries illustrate and reinforce key ideas Designed to meet curricular guidelines for pharmaceutics and laboratory skills mandated by the Accreditation Council for Pharmacy Education (ACPE) Companion website features resources for students and instructors, including videos illustrating difficult processes and procedures and practice questions and answers. Instructor resources include Powerpoint slides and a full-color image bank

Pharmacology Miles Hacker 2009-06-19 Pharmacology meets the rapidly emerging needs of programs training pharmacologic scientists seeking careers in basic research and drug discovery rather than such applied fields as pharmacy and medicine. While the market is crowded with many clinical and therapeutic pharmacology textbooks, the field of pharmacology is booming with the prospects of discovering new drugs, and virtually no extant textbook meets this need at the student level. The market is so bereft of such approaches that many pharmaceutical companies will adopt Hacker et al. to help train new drug researchers. The boom in pharmacology is driven by the recent decryption of the human genome and enormous progress in controlling genes and synthesizing proteins, making new and even custom drug design possible. This book makes use of these discoveries in presenting its topics, moving logically from drug receptors to the target molecules drug researchers seek, covering such modern topics along the way as side effects, drug resistance, pharmacogenomics, and even nutriceuticals, one in a string of culminating chapters on the drug discovery process. The book is aimed at advanced undergraduates and beginning graduate students in medical, pharmacy, and graduate schools looking for a solid introduction to the basic science of pharmacology and envisioning careers in drug research. Uses individual drugs to explain molecular actions Full color art program explains molecular and chemical concepts graphically Logical structure reflecting the current state of pharmacology and translational research Covers such intricacies as drug resistance and cell death Consistent format across chapters and pedagogical strategies make this textbook a superior learning tool

Handbook of Safety Assessment of Nanomaterials Bengt Fadeel 2014-12-10 The rapidly evolving field of nanomedicine refers to the clinical application of nanotechnologies. However, as with all new technologies, there are ethical, safety, and regulatory issues. This handbook, written by leading international experts, provides a meticulous overview of the state of the art of safety assessment of nanomaterials (nanotoxicology) in the context of their application in nanomedicine. The volume includes a historical perspective on the development of nanomedicine and its regulation, and a personal view of the future of (nano)medicine by Patrick Hunziker, president of the European Society of Nanomedicine. Ethical considerations in relation to nanomedicine are discussed. There are a series of chapters on organ-specific toxicities of nanomaterials, including pulmonary and cardiovascular toxicity, neurotoxicity, dermatotoxicity, and reproductive toxicity, as well as a discussion on immunotoxicity and genotoxicity. The importance of a thorough characterization of physicochemical properties of nanomaterials is emphasized. The handbook also contains a critical discussion on the applicability of in vitro versus in vivo methods and models for nanosafety assessment, along with an introduction to mathematical modeling approaches with a view to a predictive toxicology of nanomaterials. The overall aim is to provide a comprehensive, science-based framework for safety assessment of current and future nanomedicines.
Adverse Events with Biomedicines Giuseppe Tridente 2013-12-09 This monograph gathers and evaluates data on adverse events (AEs) associated specifically with those “biomedicines” – monoclonal antibodies, fusion proteins, and cytokines – that have recently entered therapeutic use in humans. All AEs observed when using each member of this new drug class are covered, with a view to improving understanding of pathogenesis, facilitating prevention, monitoring, and control, and contributing to the development of better drugs that provide benefits while minimizing risk. Further aspects here examined include the role of drug mechanisms of action and immunogenicity in relation to AEs outcome and induction of systemic syndromes. Additional data on AEs in off-label treatments are also considered. Electronic data sheets, downloadable from Springer Extra Materials platform, include more detailed safety data as well as additional basic information on product characteristics, pre- and post-marketing AEs classified according to frequency, and system/organ targeting. Data on excipients and selected information on drug interactions and associations are also provided. Adverse Events with Biomedicines: Prevention Through Understanding will serve as a detailed, practical guideline to this important new area, which demands the attention of clinicians, immunologists, oncologists, allergologists, public health professionals, and drug companies.
Applied Biopharmaceutics & Pharmacokinetics Leon Shargel 2005 Annotation The primary emphasis of this book is on the application and understanding of concepts. Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided, along with illustrative examples and practice problems and solutions to help the student gain skill in practical problem solving.
Basic Pharmacokinetics Sunil Jambhekar 2009 This is an essential guide to the study of absorption, distribution, metabolism and elimination of drugs in the body.
The Practice of Medicinal Chemistry Camille Georges Wermuth 2011-05-02 The Practice of Medicinal Chemistry fills a gap in the list of available medicinal chemistry literature. It is a single-volume source on the practical aspects of medicinal chemistry. Considered ""the Bible"" by medicinal chemists, the book emphasizes the methods that chemists use to conduct their research and design new drug entities. It serves as a practical handbook about the drug discovery process, from conception of the molecules to drug production. The first part of the book covers the background of the subject matter, which includes the definition and history of medicinal chemistry, the measurement of biological activities, and the main phases of drug activity. The second part of the book presents the road to discovering a new lead compound and creating a working hypothesis. The main parts of the book discuss the optimization of the lead compound in terms of potency, selectivity, and safety. The Practice of Medicinal Chemistry can be considered a ""first-read"" or ""bedside book"" for readers who are embarking on a career in medicinal chemistry. NEW TO THIS EDITION: * Focus on chemoinformatics and drug discovery * Enhanced pedagogical features * New chapters including: - Drug absorption and transport - Multi-target drugs * Updates on hot new areas: NEW! Drug discovery and the latest techniques NEW! How potential drugs can move through the drug discovery/ development phases more quickly NEW! Chemoinformatics
Pediatric Epilepsy Blaise F. Bourgeois, MD 2007-12-16 The extensively updated third edition of Pediatric Epilepsy: Diagnosis and Therapy continues to be the definitive volume on the diagnosis, treatment, classification, and management of the childhood epilepsies. Written by nearly 100 international leaders in the field, this new edition progresses logically with major sections on the basic mechanisms of the disease, classification, epidemiology, etiology, diagnosis, and age-related syndromes of epilepsy. The core of the new third edition is its completely updated section on antiepileptic drugs, including an in-depth discussion of dosage considerations, drug toxicity, teratogenicity, and drug interactions, with recommendations for optimal combinations when multiple drug therapy is required. Features unique to the third edition include: Expanded section on the basic science and mechanism of epilepsy Completely updated drug chapters, including newly released drugs and those in development Expanded chapters on vagus nerve stimulation and surgical treatment Expanded section on co-morbidities The third edition includes 21 new chapters, including discussions of: epileptic channelopathies; epileptogenic cerebral cortical malformation; epilepsy genes; etiologies and workup; evidence-based medicine issues related to drug selection; Levetiracetam; Sulthiame; Pregabalin; herbal medications; basic and advanced imaging; immunotherapy issues; vagus nerve stimulation therapy; cognitive and psychiatric co-morbidities and educational placement; and psychosocial aspects of epilepsy.
Generic Drug Product Development Isadore Kanfer 2007-11-15 The assessment of bioequivalence is an important process whereby the bioavailability of a generic drug product is compared with its brand-name counterpart. Generic pharmaceutical products must be approved as therapeutic equivalents to the brand name alternative in order to be interchangeable. The demonstration of bioequivalence is an important component of therapeutic equivalence. Bioequivalence studies are very expensive, time consuming and always have the possibility of failure. The objective of this textbook is to describe some of those specific bioequivalence issues which need to be considered for the design and conduct of bioequivalence studies. By exploring scientific, legal, and international regulatory challenges, Generic Drug Development, discusses the use of alternative approaches to the measurement of plasma drug concentrations for the demonstration of bioequivalence, and covers bioequivalence procedures for drug products that are not easily assessed - based upon the physical and chemical properties of the active drug and the nature of the drug product.

Biopharmaceuticals Gary Walsh 2013-04-29 The latest edition of this highly acclaimed textbook, provides a comprehensive and up-to-date overview of the science and medical applications of biopharmaceutical products. Biopharmaceuticals refers to pharmaceutical substances derived from biological sources, and increasingly, it is synonymous with 'newer' pharmaceutical substances derived from genetic engineering or hybridoma technology. This superbly written review of the important areas of investigation in the field, covers drug production, plus the biochemical and molecular mechanisms of action together with the biotechnology of major biopharmaceutical types on the market or currently under development. There is also additional material reflecting both the technical advances in the area and detailed information on key topics such as the influence of genomics on drug discovery.

Applied Biopharmaceutics & Pharmacokinetics, Eigth Edition Andrew B.C. Yu 2020-12-06 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. This authoritative guide has been updated with important new findings about drug therapy, product performance, and other need-to-know topics Applied Biopharmaceutics & Pharmacokinetics, Eighth Edition delivers the knowledge and skills you need to succeed. The authors provide practical problems with specific examples of clinical solutions to help you apply principles to patient care and drug consultation situations. Each chapter includes objectives, summaries, and FAQs highlighting that help you understand and retain key concepts. You'll learn how to derive models/parameters to describe drug absorption, distribution, and elimination processes; evaluate biopharmaceutic studies involving drug product equivalency and unequivalency; design and evaluate dosage regimens of drugs; detect and solve clinical pharmacokinetic problems; and much more.

Basic Pharmacokinetics and Pharmacodynamics Sara E. Rosenbaum 2016-12-27 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)

Biopharmaceutics and Pharmacokinetics PL Madan 2019-06-27

Nanotoxicology Nancy A. Monteiro-Riviere 2014-03-03 Since the first publication of this book in 2007, the field of nanoscience and nanomedicine continues to grow substantially. This second edition, Nanotoxicology: Progress toward Nanomedicine, enlists internationally recognized experts to document the continuing development and rationale for the safe design of engineered nanomaterials (ENM). This in

Aulton's Pharmaceutics Michael E. Aulton 2013 Pharmaceutics is one of the most diverse subject areas in all of pharmaceutical science. In brief, it is concerned with the scientific and technological aspects of the design and manufacture of dosage forms or medicines. An understanding of pharmaceutics is therefore vital for all pharmacists and those pharmaceutical scientists who are involved with converting a drug or a potential drug into a medicine that can be delivered safely, effectively and conveniently to the patient. Now in its fourth edition, this best-selling textbook in pharmaceutics has been brought completely up to date to reflect the rapid advances in delivery methodologies by eye and injection, advances in drug formulations and delivery methods for special groups (such as children and the elderly), nanomedicine, and pharmacognosy. At the same time the editors have striven to maintain the accessibility of the text for students of pharmacy, preserving the balance between being a suitably pitched introductory text and a clear reflection of the state of the art. provides a logical, comprehensive account of drug design and manufacture includes the science of formulation and drug delivery designed and written for newcomers to the design of dosage forms New to this edition New editor: Kevin Taylor, Professor of Clinical Pharmaceutics, School of Pharmacy, University of London. Twenty-two new contributors. Six new chapters covering parenteral and ocular delivery; design and administration of medicines for the children and elderly; the latest in plant medicines; nanotechnology and nanomedicines, and the delivery of biopharmaceuticals. Thoroughly revised and updated throughout.