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**Applied Pharmacokinetics & Pharmacodynamics** - Michael E. Burton - 2006
The definitive advanced-level clinical pharmacokinetics text is now in its Fourth Edition, with new emphasis on the relationship between pharmacokinetics and pharmacodynamics. Written by 70 leading researchers and practitioners, this book is a rigorous yet practical text on the application of pharmacokinetic methods, pharmacodynamic principles, and pharmacotherapeutic data for optimal, individualized drug therapy. This edition includes case studies that apply concepts to actual patient problems. New chapters cover tacrolimus, mycophenolic acid, sirolimus, antipsychotics, and critical evaluation of therapeutic drug monitoring methods. Other new features include more drawings and reference tables and an appendix on outcome studies with therapeutic drug monitoring.

The Third Edition of Applied Pharmacokinetics remains the gold standard by which all other clinical pharmacokinetics texts are measured. Written by leading pharmacokinetics researchers and practitioners, this book is the most advanced kinetics reference available. All chapters have been extensively updated or completely rewritten for this edition, and six new chapters have been added on pharmacodynamics, pharmacogenetics, pharmacokinetic considerations in the obese, dietary influences on drug disposition, zidovudine, and corticosteroids. Each chapter is tightly focused on the most important concepts and issues. Chapters on specific drugs are organized in a consistent format for quick, easy information retrieval. Major subheadings include Clinical Pharmacokinetics, Pharmacodynamics, Clinical Application of Pharmacokinetic Data, Analytical Methods, and Prospectus.
**Applied Pharmacokinetics** - William E. Evans - 1992
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**Applied Clinical Pharmacokinetics and Pharmacodynamics of Psychopharmacological Agents** - Michael W. Jann - 2016-03-02
This book is a comprehensive resource on psychotropic medications, detailing the latest methods for defining their characteristics, their use in different patient populations, and drug-drug interactions; an important collection of information for clinicians, students, researchers, and members of the pharmaceutical industry alike. The first section provides the foundational principles of these drugs. Mathematical modeling of parameters that affect their entry, and exit from, the central nervous system (CNS) compartment are presented on an individual basis and then applied to target populations with specific disease states. Methods and characteristics that inform the transfer of these drugs from the laboratory bench to use in patient care are discussed, including imaging techniques, genetics and physiological barriers, such as the blood-brain barrier. The second section describes the characteristics of specific agents, nominally arranged into different therapeutic categories and with reference crossover use in different disease states. The pharmacologic characteristics of different drug formulations are explored in the context of their ability to improve patient adherence. The third section focuses on drug-drug interactions. Psychotropic medications from different categories are frequently prescribed together, or alongside medications used to treat comorbid conditions, and the information provided is directly relevant to the clinic, as a result. The clinical application of pharmacokinetics and pharmacodynamics of CNS agents has made significant progress over the past 50 years and new information is reported by numerous publications in psychiatry, neurology, and pharmacology. Our understanding of the interrelationship between these medications, receptors, drug transporters, as well as techniques for measurement and monitoring their interactions is frequently updated. However, with information presented on a host of different platforms, and in different formats, obtaining the full picture can be difficult. This title aims to collate this information into a single source that can be easily interpreted and applied towards patient care by the clinical practitioner, and act as a reference for all others who have an interest in psychopharmacological agents.

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Over the past decade, significant progress has been made in the theory and applications of pharmacodynamics of antimicrobial agents. On the basis of pharmacokinetic-pharmacodynamic modeling concepts it has become possible to describe and predict the time course of antimicrobial effects under normal and pathophysiological conditions. The study of pharmacokinetic-pharmacodynamic relationships can be of considerable value in understanding drug action, defining optimal dosing regimens, and in making predictions under new or changing pre-clinical and clinical circumstances. Not surprisingly, pharmacokinetic-pharmacodynamic modeling concepts are increasingly applied in both basic and clinical research as well as in drug development. The book will be designed as a reference on the application of pharmacokinetic-pharmacodynamic principles for the optimization of antimicrobial therapy, namely pharmacotherapy, and infectious diseases. The reader will be introduced to various aspects of the fundamentals of antimicrobial pharmacodynamics, the integration of pharmacokinetics with pharmacodynamics for all major classes of antibiotics, and the translation of in vitro and animal model data to basic research and clinical situations in humans.

Basic Pharmacokinetics and Pharmacodynamics - Sara E. Rosenbaum - 2016-11-22
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)

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**Holland-Frei Cancer Medicine** - Robert C. Bast, Jr. - 2017-03-10

Holland-Frei Cancer Medicine, Ninth Edition, offers a balanced view of the most current knowledge of cancer science and clinical oncology practice. This all-new edition is the consummate reference source for medical oncologists, radiation oncologists, internists, surgical oncologists, and others who treat cancer patients. A translational perspective throughout, integrating cancer biology with cancer management providing an in depth understanding of the disease An emphasis on multidisciplinary, research-driven patient care to improve outcomes and optimal use of all appropriate therapies Cutting-edge coverage of personalized cancer care, including molecular diagnostics and therapeutics Concise, readable, clinically relevant text with algorithms, guidelines and insight into the use of both conventional and novel drugs Includes free access to the Wiley Digital Edition providing search across the book, the full reference list with web links, illustrations and photographs, and post-publication updates

**Rowland and Tozer's Clinical Pharmacokinetics and Pharmacodynamics:** - 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.

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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.

Modeling in Biopharmaceutics, Pharmacokinetics and Pharmacodynamics - Panos Macheras - 2006-04-26
This book presents a novel modeling approach to biopharmaceutics, pharmacokinetics and pharmacodynamic phenomena. It shows how advanced physical and mathematical methods can expand classical models in order to cover heterogeneous drug-biological processes and therapeutic effects in the body. Throughout, many examples are used to illustrate the intrinsic complexity of drug administration related phenomena in the human, justifying the use of advanced modeling methods.

Basic Skills in Interpreting Laboratory Data - Mary Lee - 2013-06-01
Basic Skills in Interpreting Laboratory Data, Fifth Edition, is the classic and most popular pharmacy laboratory text because it is the only reference on this subject written by pharmacists, for pharmacists. Students find this guide a clear and useful introduction to the fundamentals of interpreting laboratory test results. The book enhances the skills pharmacists need by providing essential information on common laboratory tests used to screen for or diagnose diseases and monitor the effectiveness and safety of treatment and disease severity. Each chapter contains learning objectives, case studies, bibliographies, and charts that summarize the causes of high and low test results. New for this edition: Updated and expanded Quick View tables in each chapter now match those in the popular quick-reference, Interpreting Laboratory Data: A Point-of-Care Guide New glossary of acronyms is right up front for a streamlined reference Normal value ranges of all tests have been standardized by an expert pathologist New and updated cases in each chapter apply your Basic Skills in clinical situations Reorganized to highlight the application of concepts by body system, and in special populations Basic Skills in Interpreting Laboratory Data offers features that will help pharmacy students not only understand and engage with the material but also will streamline the transition from classroom to practice setting. After studying with this trusted text, students and pharmacists will more effectively monitor patient therapy, evaluate test results, and improve outcomes through optimal and focused pharmacotherapy.
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**Basic Principles of Drug Discovery and Development** - Benjamin E. Blass - 2021-05-25

Basic Principles of Drug Discovery and Development presents the multifaceted process of identifying a new drug in the modern era, which requires a multidisciplinary team approach with input from medicinal chemists, biologists, pharmacologists, drug metabolism experts, toxicologists, clinicians, and a host of experts from numerous additional fields. Enabling technologies such as high throughput screening, structure-based drug design, molecular modeling, pharmaceutical profiling, and translational medicine are critical to the successful development of marketable therapeutics. Given the wide range of disciplines and techniques that are required for cutting edge drug discovery and development, a scientist must master their own fields as well as have a fundamental understanding of their collaborator’s fields. This book bridges the knowledge gaps that invariably lead to communication issues in a new scientist’s early career, providing a fundamental understanding of the various techniques and disciplines required for the multifaceted endeavor of drug research and development. It provides students, new industrial scientists, and academics with a basic understanding of the drug discovery and development process. The fully updated text provides an excellent overview of the process and includes chapters on important drug targets by class, in vitro screening methods, medicinal chemistry strategies in drug design, principles of in vivo pharmacokinetics and pharmacodynamics, animal models of disease states, clinical trial basics, and selected business aspects of the drug discovery process. Provides a clear explanation of how the pharmaceutical industry works, as well as the complete drug discovery and development process, from obtaining a lead, to testing the bioactivity, to producing the drug, and protecting the intellectual property Includes a new chapter on the discovery and development of biologics (antibodies proteins, antibody/receptor complexes, antibody drug conjugates), a growing and important area of the pharmaceutical industry landscape Features a new section on formulations, including a discussion of IV formulations suitable for human clinical trials, as well as the application of nanotechnology and the use of transdermal patch technology for drug delivery Updated chapter with new case studies includes additional modern examples of drug discovery through high through-put screening, fragment-based drug design, and computational chemistry.

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**Pharmacokinetic-Pharmacodynamic Modeling and Simulation** - Peter L. Bonate - 2011-07-01

This is a second edition to the original published by Springer in 2006. The comprehensive volume takes a textbook approach systematically developing the field by starting from linear models and then moving up to generalized linear and non-linear mixed effects models. Since the first edition was published the field has grown considerably in terms of maturity and technicality. The second edition of the book therefore considerably expands with the addition of three new chapters relating to Bayesian models, Generalized linear and nonlinear mixed effects models, and Principles of simulation. In addition, many of the other chapters have been expanded and updated.

**Applications of Pharmacokinetic Principles in Drug Development** - Rajesh Krishna - 2012-12-06

This volume is an important advancement in the application of pharmacokinetic (PK) and pharmacodynamic (PD) principles to drug development. The series of topics presented deal with the application of these tools to everyday decisions that a pharmaceutical scientist encounters. The ability to integrate these topics using PK and PD methods has optimized drug development pathways in the clinic. New technologies in the areas of in vitro assays that are more predictive of human absorption and metabolism and advancement in bioanalytical assays are leading the way to minimize drug failures in later, more expensive clinical development programs. Pharmacokinetics and pharmacodynamics have become an important component in understanding the drug action on the body and is becoming increasingly important in drug labeling due to its potential for predicting drug behavior in populations that may be difficult to study in adequate numbers during drug development. The ability to correlate drug exposure to effect and model it during the drug development value chain provides valuable insight into optimizing the next steps to derive maximum information from each study. These principles and modeling techniques have resulted in an expanded and integrated view of PK and PD and have led to the expectations that we may be able to optimally design clinical trials and eventually lead us to identifying the optimal therapy for the patient, while minimizing cost and speeding up drug development. There is wide utility for the book both as a text and as a
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Applied Pharmacology - Stan K. Bardal - 2011
Applied Pharmacology provides the essential details that are required for a solid understanding of pharmacology: how the drugs work, why side effects occur, and how the drugs are used clinically. Drs. Stan Bardal, Jason Waechter, and Doug Martin integrate the experience of the pharmacologist and the physician for a clinical focus that ensures a complete understanding of pharmacology in print and online. Find information quickly and compare and contrast drugs easily thanks to a clear and consistent format without extraneous material. Apply basic pharmacology to clinical situations through integrated text. Enhance your learning with "For Your Information" sections detailing history and anecdotes for many agents within a given drug class. Access the fully searchable text online at studentconsult.com, along with 150 USMLE-style multiple choice questions, downloadable images, and online only references. Learn the essential details of pharmacology and enhance your understanding through an entirely new, fantastic art program. Gain a thorough understanding of key pharmacology components in a concise and efficient format.

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

Clinical Pharmacokinetics - John E. Murphy - 2016
Individualized Drug Therapy for Patients
Roger W Jelliffe - 2016-11-15
Individualized Drug Therapy for Patients: Basic Foundations, Relevant Software and Clinical Applications focuses on quantitative approaches that maximize the precision with which dosage regimens of potentially toxic drugs can hit a desired therapeutic goal. This book highlights the best methods that enable individualized drug therapy and provides specific examples on how to incorporate these approaches using software that has been developed for this purpose. The book discusses where individualized therapy is currently and offers insights to the future. Edited by Roger Jelliffe, MD and Michael Neely, MD, renowned authorities in individualized drug therapy, and with chapters written by international experts, this book provides clinical pharmacologists, pharmacists, and physicians with a valuable and practical resource that takes drug therapy away from a memorized ritual to a thoughtful quantitative process aimed at optimizing therapy for each individual patient. Uses pharmacokinetic approaches as the tools with which therapy is individualized. Provides examples using specific software that illustrate how best to apply these approaches and to make sense of the more sophisticated mathematical foundations upon which this book is based. Incorporates clinical cases throughout to illustrate the real-world benefits of using these approaches. Focuses on quantitative approaches that maximize the precision with which dosage regimens of potentially toxic drugs can hit a desired therapeutic goal.

Clinical Pharmacokinetics Handbook
Larry A. Bauer - 2005-08-25
Designed for pharmacists and clinicians responsible for adjusting drug dosages based on the patient blood serum concentrations and other parameters, this indispensable, portable reference offers a variety of ways to perform pharmacokinetic calculations. Features calculation methods, algorithms for choosing the best calculation method, and case studies.

Drug-induced Diseases
James E. Tisdale - 2010
According to the authors, a drug-induced disease as an unintended effect of a drug, which results in mortality or morbidity with symptoms sufficient to prompt a patient to seek medical attention and/or require hospitalization. Since the first edition of this book was published in 2005, numerous drugs have been withdrawn from the market in the United States as a result of morbidity and/or mortality associated with drug-induced diseases. Despite best efforts to assure that all drugs are safe and effective, millions of patients each year develop drug-induced diseases. Every time a patient presents with a new disease or an exacerbation of an
existing condition, someone needs to ask, "Could this be drug-related? Now in its second edition, this popular and essential comprehensive resource provides a detailed analysis of how to identify, prevent, and manage drug-induced diseases. Edited by James E. Tisdale and Douglas A. Miller, with contributions from experts distinguished in their respective specialties, Drug-Induced Diseases is organized logically and is easy to use for pharmacists, physicians, nurses, and pharmacy students alike. Inside you'll find: Chapters dedicated to each disease state. In-depth tables throughout each chapter. A new section on Drug-Induced dermatologic diseases. New drugs implicated as the cause of specific disease(s). The inclusion of the Levels of Evidence classification scheme for identifying drug-induced diseases. And much more.

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**Physiologically Based Pharmacokinetic (PBPK) Modeling** - Jeffrey W. Fisher - 2020-05-20

Physiologically Based Pharmacokinetic (PBPK) Modeling: Methods and Applications in Toxicology and Risk Assessment presents foundational principles, advanced techniques and applications of PBPK modeling. Contributions from experts in PBPK modeling cover topics such as pharmacokinetic principles, classical physiological models, the application of physiological models for dose-response and risk assessment, the use of in vitro information, and in silico methods. With end-of-chapter exercises that allow readers to practice and learn the skills associated with PBPK modeling, dose-response, and its applications to safety and risk assessments, this book is a foundational resource that provides practical coverage of PBPK modeling for graduate students, academics, researchers, and more. Provides end-of-chapter exercises to teach hands-on computational tools used in toxicology Supplies computer code and explanations and includes examples of applied models used in regulatory toxicology and research Authored by expert editors and contributors who are among the best PBPK modelers in the world
This revised second edition covers the pharmacologic principles underlying the individualization of patient therapy and contemporary drug development, focusing on the fundamentals that underlie the clinical use and contemporary development of pharmaceuticals. Authors drawn from academia, the pharmaceutical industry and government agencies cover the spectrum of material, including pharmacokinetic practice questions, covered by the basic science section of the certifying examination offered by the American Board of Clinical Pharmacology. This unique reference is recommended by the Board as a study text and includes modules on drug discovery and development to assist students as well as practicing pharmacologists. Unique breadth of coverage ranging from drug discovery and development to individualization and quality assessment of drug therapy Unusual cohesive of presentation that stems from author participation in an ongoing popular NIH course Instructive linkage of pharmacokinetic theory and applications with provision of sample problems for self-study Wide-ranging perspective of authors drawn from the ranks of Federal agencies, academia and the pharmaceutical industry Expanded coverage of pharmacogenetics Expanded coverage of drug transporters and their role in interactions Inclusion of new material on enzyme induction mechanisms in chapters on drug metabolism and drug interactions A new chapter on drug discovery that focuses on oncologic agents Inclusion of therapeutic antibodies in chapter on biotechnology products

Essentials of Pharmacokinetics and Pharmacodynamics - Thomas N. Tozer - 2015-09-01
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.
Knowledge of pharmacokinetics is critical to understanding the absorption, distribution, metabolism, and excretion of drugs. It is therefore vital to those engaged in the discovery, development, and preclinical and clinical evaluation of drugs, as well as practitioners involved in the clinical use of drugs. Using different approaches accessible to a wide variety of readers, Basic Pharmacokinetics: Second Edition demonstrates the quantitative pharmacokinetic relations and the interplay between pharmacokinetic parameters. After a basic introduction to pharmacokinetics and its related fields, the book examines: Mathematical operations commonly used in pharmacokinetics, Drug distribution and clearance and how they affect the rate of drug elimination after a single dose, Factors affecting drug absorption following extravascular drug administration, the rate and extent of drug absorption, and drug bioequivalence, The steady-state concept during constant rate intravenous infusion and during multiple drug administration, Renal drug elimination, Renal drug elimination, drug metabolism, multicompartment models, nonlinear pharmacokinetics, and drug administration by intermittent intravenous infusion, Pharmacokinetic-pharmacodynamic modeling, noncompartmental pharmacokinetic data analysis, clearance concept from the physiological point of view, and physiological modeling, Clinical applications of pharmacokinetics, including therapeutic drug monitoring, drug pharmacokinetics in special populations, pharmacokinetic drug-drug interactions, pharmacogenomics, and applications of computers in pharmacokinetics. Accompanying the book is a CD-ROM with self-instructional tutorials and pharmacokinetic and pharmacokinetic-pharmacodynamic simulations, allowing visualization of concepts for enhanced comprehension. This learning tool received an award from the American Association of Colleges of Pharmacy for innovation in teaching, making it a valuable supplement to this essential text.
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

**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

**Applied Clinical Pharmacokinetics 3/E** - Larry A. Bauer - 2014-01-05
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 dosages. 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 monitored 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 leaning.

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**Clinical Pharmacokinetics and Pharmacodynamics** - Malcolm Rowland - 2011

**Drug Benefits and Risks** - Christoffel Jos van Boxtel - 2008-01-01
Explores the scientific basis and practice of drug therapy. This book examines the practice of clinical pharmacology and pharmacotherapy in the developing as well as the developed world. It covers general clinical pharmacology, pharmacology of various drug groups and the treatments specific to various diseases.

**Pharmacometrics** - Ene I. Ette - 2013-03-14
Pharmacometrics is the science of interpreting and describing pharmacology in a quantitative fashion. The pharmaceutical industry is integrating pharmacometrics into its drug development program, but there is a lack of and need for experienced pharmacometricians since fewer and fewer academic programs exist to train them. Pharmacometrics: The Science of Quantitative Pharmacology lays out the science of pharmacometrics and its application to drug development, evaluation, and patient pharmacotherapy, providing a comprehensive set of tools for the training and development of pharmacometricians. Edited and written by key leaders in the field, this flagship text on pharmacometrics: Integrates theory and practice to let the reader apply principles and concepts. Provides a comprehensive set of tools for training and developing expertise in the pharmacometric field. Is unique in including computer code information with the examples. This volume is an invaluable resource for all pharmacometricians, statisticians, teachers, graduate and undergraduate students in academia, industry, and regulatory agencies.
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**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.


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.

**Antimicrobial Stewardship** - Kerry LaPlante - 2016-12-23

In an age where antimicrobial resistance amongst pathogens grows more prevalent,
particularly in the hospital setting, antimicrobial stewardship is an evidence-based, proven measure in the battle against resistance and infection. This single comprehensive, definitive reference work is written by an international team of acknowledged experts in the field. The authors explore the effective use of coordinated antimicrobial interventions to change prescribing practice and help slow the emergence of antimicrobial resistance, ensuring that antimicrobials remain an effective treatment for infection. Amongst the first of its kind, this book provides infectious disease physicians, administrators, laboratory, pharmacy, nursing and medical staff with practical guidance in setting up antimicrobial stewardship programs in their institutions with the aim of selecting the optimal antimicrobial drug regimen, dose, duration of therapy, and route of administration.

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The essential work in HIV for providers and pharmacists -- updated with everything they need to know in 2019! Assembled by the leading educational organization in HIV medicine, AAHIVM's Fundamentals of HIV Medicine 2019 is an end-to-end clinical resource for the treatment of individuals with HIV/AIDS. It offers state-of-the-art practical advice for physicians, pharmacists, nurse practitioners, and other professionals working in the care of HIV patients. Along with updates to the classic domains of HIV medicine, this new edition features expanded coverage of emerging topics, including: behavioral and therapeutic interventions to HIV prevention; updates on the pursuit of a cure; new DHHS and IAS guidelines and their clinical implications; and the myriad issues around aging with HIV. Embodying the American Academy of HIV Medicine's commitment to excellence in the care of seropositive patients, Fundamentals of HIV Medicine 2019 is must-have for health professionals across HIV care, treatment, and prevention.

This one-stop reference systematically covers key aspects in early drug development that are directly relevant to the discovery phase and are required for first-in-human studies. Its broad scope brings together critical knowledge from many disciplines, ranging from process technology to pharmacology to intellectual property issues. After introducing the overall early development workflow, the critical steps of early drug development are described in a sequential and enabling order: the availability of the drug substance and that of the drug product, the prediction of pharmacokinetics and -dynamics, as well as that of drug safety. The final
section focuses on intellectual property aspects during early clinical development. The emphasis throughout is on recent case studies to exemplify salient points, resulting in an abundance of practice-oriented information that is usually not available from other sources. Aimed at medicinal chemists in industry as well as academia, this invaluable reference enables readers to understand and navigate the challenges in developing clinical candidate molecules that can be successfully used in phase one clinical trials.

**Early Drug Development** - Fabrizio Giordanetto  
- 2018-06-15

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This is an authoritative, comprehensive book on the fate of drug molecules in the body, including implications for pharmacological and clinical effects. The text provides a unique, balanced approach, examining the specific physical and biological factors affecting the absorption, distribution, metabolism and excretion of drugs, together with mathematical assessment of the concentrations in plasma and body fluids. Understanding the equations requires little more than a basic knowledge of algebra, laws of indices and logarithms, and very simple calculus. A companion web site contains additional illustrations, further equations and numerous worked examples. Whilst this book has its roots in the highly acclaimed book of the same name, written by Stephen Curry nearly thirty years ago, it is essentially a new book having been restructured and largely rewritten. This readable and informative book is an invaluable resource for professionals and students needing to develop a rational approach to the investigation and application of drugs.

**Applied Clinical Pharmacokinetics** - Larry A. Bauer - 2007-09-22

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.

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Pharmacokinetics and Toxicokinetics - Mehdi Boroujerdi - 2015-02-24
Pharmacokinetics and Toxicokinetics provides an overview of pharmacokinetics and toxicokinetics in a comprehensible, interrelated, and applied manner. It integrates the principles held in common by both fields through a logical and systematic approach. The book presents mathematical descriptions of physiological processes employed in different approaches to PK/TK modeling. It focuses on emphasizing general principles and concepts, rather than isolated observations. Above all, the book is an effort to blend the pharmaceutical and toxicological aspects of both fields. The systematic compilation of mathematical concepts and methodologies allows readers to decide on relevant concepts and approaches for their research, scientific or regulatory decisions, or for offering advance courses and seminars. This is an invaluable resource for scientists in the pharmaceutical sciences, clinical sciences, and environmental health sciences, as well as those involved in drug discovery and development.

Middleton's Allergy E-Book - N. Franklin Adkinson Jr. - 2013-09-18
This best-selling resource has a worldwide reputation as the leader in its field. Focusing on human immunology and biology, while also reporting on scientific experimentation and advancement, it provides comprehensive coverage of state-of-the-art basic science as well as authoritative guidance on the practical aspects of day-to-day diagnosis and management. This new edition includes 700 full-color illustrations and a new, more accessible format to make finding information a snap for the busy practitioner. Includes a glossary of allergy and immunology for quick and easy reference. Contains keypoints and clinical pearls highlighted to find important information quickly. Links to useful online resources both for you and for your patients. Offers contributions from hundreds of international authorities for world-class expertise in overcoming any clinical challenge. Contains 400 new illustrations, 700 in all, to better illustrate complex immunology. Covers the very latest in the field, including hot topics such as food allergy and immunotherapy. Includes the latest guidelines from The National Asthma Education and Prevention Program (NAEPP). Utilizes a new, more user-friendly full-color format for easier reference.

Basic Pharmacokinetics - Sunil Jambhekar - 2009
This is an essential guide to the study of absorption, distribution, metabolism and elimination of drugs in the body.

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**Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics - E-Book** - Nader Rifai - 2018-10-31
Get the foundational knowledge you need to successfully work in a real-world, clinical lab with Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics, 8th Edition. From highly respected clinical chemistry expert Nader Rifai, this condensed, easier-to-understand version of the acclaimed Tietz Textbook of Clinical Chemistry and Molecular Diagnostics uses a laboratory perspective to guide you through selecting and performing diagnostic lab tests and accurately evaluating the results. Coverage includes laboratory principles, analytical techniques, instrumentation, analytes, pathophysiology, and more. This eighth edition features new clinical cases from The Coakley Collection, new questions from The Deacon’s Challenge of Biochemical Calculations Collection, plus new content throughout the text to ensure you stay ahead of all the latest techniques, instrumentation, and technologies. Condensed version of the clinical chemistry "bible" offers the same authoritative and well-presented content in a much more focused and streamlined manner. Coverage of analytical techniques and instrumentation includes optical techniques, electrochemistry, electrophoresis, chromatography, mass spectrometry, enzymology, immunochemical techniques, microchips, automation, and point of care testing. Updated chapters on molecular diagnostics cover the principles of molecular biology, nucleic acid techniques and applications, and genomes and nucleic acid alterations, reflecting the changes in this rapidly evolving field. Learning objectives, key words, and review questions are included in each chapter to support learning. More than 500 illustrations plus easy-to-read tables help readers better understand and remember key concepts. NEW! Clinical Cases from The Coakley Collection use real-life scenarios to demonstrate how concepts from the text will come in to play in real life practice.
NEW! Questions from The Deacon’s Challenge of Biochemical Calculations Collection help reinforce concepts and help readers’ critical thinking skills. NEW! Updated content throughout the text keeps readers up to date on the latest techniques, instrumentation, and technologies. NEW! New lead author Nader Rifai lends his expertise as the Director of Clinical Chemistry at Children’s Hospital in Boston, the Editor-in-Chief of the journal Clinical Chemistry, and a Professor of Pathology at Harvard University.
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**Concepts in Clinical Pharmacokinetics** - William Spruill - 2014-04-11
Concepts in Clinical Pharmacokinetics has helped thousands of students and practitioners through five editions by simplifying a complex subject. The authors have thoroughly reviewed, revised, and redesigned the text to enhance the reader’s grasp of the material. This 6th Edition offers a superior approach to understanding pharmacokinetics through extensive use of clinical correlates, figures, and questions and answers. Inside you will find: Content broken into 15 easy-to-follow lessons, perfect for a semester. Practice quizzes in 11 chapters to chart progress. Four chapters completely devoted to clinical cases. More information on hemodialysis More on pharmacogenetics More on plasma concentration versus time curve (AUC) calculations 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 More on modified diet in renal disease (MDRD) formula versus Cockcroft-Gault (CG) formula methods More theory and problems on extended interval aminoglycosides. - See more at: http://store.ashp.org/Store/ProductListing/Producedetails.aspx?productId=153117615#sthash.58RrToYW.dpuf

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