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Pharmacokinetics : Principles And Applications



Synopsis

An essential resource, this text presents the mathematical concepts required to understand pharmacokinetics, together with applications making it realistic for pharmaceutical care. Included is detailed coverage of pharmacokinetic modeling, linear mammillary models, multiple dosing kinetics, population pharmaceutics, physiological modeling, and relevant software for pharmacokinetic research and education.

Book Information

Hardcover: 528 pages

Publisher: McGraw-Hill/Appleton & Lange; 1 edition (August 21, 2001)

Language: English

ISBN-10: 0071351647

ISBN-13: 978-0071351645

Product Dimensions: 7.5 x 0.9 x 9.4 inches

Shipping Weight: 2 pounds

Average Customer Review: 4.5 out of 5 stars 3 customer reviews

Best Sellers Rank: #1,188,073 in Books (See Top 100 in Books) #16 in [Books > Medical Books > Pharmacology > Pharmacodynamics](#) #155 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Toxicology](#) #282 in [Books > Medical Books > Pharmacology > Toxicology](#)

Customer Reviews

" I find this text to be a valuable inclusion to PharmD curriculum at the very basic level to make the students more clinically proficient." (American Journal of Pharmaceutical Education 2002-04-01)"
Considering the minimal price , good mathematical overviews, and references, this text would be appreciated by students and teachers with an interest in pharmacokinetics." (The Annals of Pharmacotherapy 2002-04-01)

Making pharmacokinetics real for pharmaceutical care and sciences, this unique introduction explains the math and delivers it in a practical context that can help you in the scientific practice of pharmacy *The best way to start pharmacokinetics for real-life practice *Ideal for students who want to understand the processes and factors that make drugs work and stop working *Inside: essential, well-illustrated information about what happens when drugs enter, interact with, and leave patients' bodies The only book to put math, physiology, and drug dynamics into a package

that makes sense for students, clinicians, and scientists, Pharmacokinetics: Principles and Applications features--

- *Practical pharmacokinetics for a core understanding of drug behavior in real patients
- *Building-block coverage that prepares you for both practice and pharmacy exam success
- *Thorough, clear review of needed math
- *18 chapters exploring drug activity in the body, the factors that affect its safety and efficacy, and practical drug problem-solving skills that can help patients
- *Coverage of drug administration, absorption, distribution, and elimination
- *Leading-edge models that explain and predict drug behavior and physiological response
- *Special coverage of the effects of dialysis on pharmacokinetics and dosage adjustments for patient with renal impairments
- *Practical help with analysis of urinary biliary data
- *More than 250 illustrations
- *Learning tools that make mastery easier, including a groundwork-laying chapter, an intro to physiological modeling, compartmental and noncompartmental analyses, and assignments with answers at the back of the book and extra credit problems based on the recent findings published in leading refereed journals for students who expect to be challenged

I got my PhD in biostatistics and have studied this area for awhile. Pharmacology is not my major, so I need a nice textbook to understand it by myself. I went through most of popular books in pharmacokinetics in the library and got very disappointed. I know most of professors in this area are boastful of their mathematical rigorousness, but for me most of them are very sloppy. Only this book is mathematically rigorous and coherent. No wonder the author got MS in mathematics.

As opposed to the review by Stephanie, I will not penalize the author and his work for delivering a used copy. This book is a very clear introduction to basic pharmacokinetics and the equations that describe traditional compartmental and non-compartmental models. I have used it as a reference for several years. There are no population approaches here; the book is more fundamental. It is entirely appropriate for early students of pharmaceutical sciences, just as the author stated in his preface, and as a reminder of the basics for more experienced pharmacokineticists or pharmacometricians. Since one can "look inside" I will not rehash the content here. This is my most frequently opened PK book on the shelf, followed by Rowland and Towser (Clinical Pharmacokinetics: Concepts and Applications). Well done to Dr. Boroujerdi.

Good but elementary. A good book to start with.

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Biopharmaceutics & Pharmacokinetics, Sixth Edition (Shargel, Applied Biopharmaceutics & Pharmacokinetics) Applied Biopharmaceutics & Pharmacokinetics, Fifth Edition (Shargel, Applied Biopharmaceutics & Pharmacokinetics) Comparative Pharmacokinetics: Principles, Techniques and Applications Pharmacokinetics : Principles and Applications Clinical Pharmacokinetics and Pharmacodynamics: Concepts and Applications By Malcolm Rowland - Clinical Pharmacokinetics and Pharmacodynamics: Concepts and Applications (4th Edition) (12/29/09) ADME and Translational Pharmacokinetics / Pharmacodynamics of Therapeutic Proteins: Applications in Drug Discovery and Development Clinical Pharmacokinetics: Concepts and Applications Pharmacokinetics: Processes, Mathematics, and Applications (ACS Professional Reference Book) Handbook of basic pharmacokinetics-- including clinical applications Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations Handbook of Essential Pharmacokinetics, Pharmacodynamics and Drug Metabolism for Industrial Scientists Pharmacokinetics, Second Edition (Drugs and the Pharmaceutical Sciences) Introduction to Pharmacokinetics and Pharmacodynamics: The Quantitative Basis of Drug Therapy Applied Biopharmaceutics and Pharmacokinetics Pharmacology Study Guide: drug classification, indications, reactions, and examples, Pharmacodynamics, Pharmacokinetics, Medical Chemistry & more for medical, ... nursing, & dental students (Mobi Medical) Biopharmaceutics and Clinical Pharmacokinetics Biopharmaceutics and Clinical Pharmacokinetics: An Introduction, Fourth Edition, Pharmacokinetics: Processes and Mathematics (Acs Monograph)

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