Pharmacokinetic-Pharmacodynamic Modeling And Simulation is written by Peter L. Bonate in English language. Release on 2011-07-01, this book has 651 page count that enfold helpful information with easy reading experience. The book was publish by Springer Science & Business Media, it is one of best medical book genre that gave you everything love about reading. You can find Pharmacokinetic-Pharmacodynamic Modeling And Simulation book with ISBN 1441994858.

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.
Pharmacokinetic Pharmacodynamic Modeling And Simulation

Related Books

Atmospheric and Space Flight Dynamics: Modeling and Simulation with MATLAB and Simulink (Modeling and Simulation in Science, Engineering and Technology)

This book offers a unified presentation that does not discriminate between atmospheric and space flight. It demonstrates that the two disciplines have evolved from the same set of physical principles and introduces a broad range of critical concepts in an accessible, yet mathematically rigorous presentation. The book presents many MATLAB and Simulink-based numerical examples and real-world simulations. Replete with illustrations, end-of-chapter exercises, and selected solutions, the work is prim...

Physiologically-Based Pharmacokinetic (PBPK) Modeling and Simulations

The only book dedicated to physiologically-based pharmacokinetic modeling in pharmaceutical science. Physiologically-based pharmacokinetic (PBPK) modeling has become increasingly widespread within the pharmaceutical industry over the last decade, but without one dedicated book that provides the information researchers need to learn these new techniques, its applications are severely limited. Describing the principles, methods, and applications of PBPK modeling as used in pharmaceutics, Physiologi...

Mathematical Modeling of Complex Biological Systems: A Kinetic Theory Approach (Modeling and Simulation in Science, Engineering and Technology)

This book describes the evolution of several socio-biological systems using mathematical kinetic theory. Specifically, it deals with modeling and simulations of biological systems whose dynamics follow the rules of mechanics as well as rules governed by their own ability to organize movement and biological functions. It proposes a new biological model focused on the analysis of competition between cells of an aggressive host and cells of a corresponding immune system. Proposed models are related...

Modeling Complex Living Systems: A Kinetic Theory and Stochastic Game Approach (Modeling and Simulation in Science, Engineering and Technology)

This book develops new mathematical methods and tools to model living systems. The material it presents can be used in such real-world applications as immunology, transportation engineering, and economics. The first part of the book deals with deriving general evolution equations that can be customized to particular systems of interest in the applied sciences. The second part of the book deals with various models and applications. The book will be a valuable resource to all involved in modeling ...

Guide to Modeling and Simulation of Systems of Systems (Simulation Foundations, Methods and Applications)

This guide demonstrates how virtual build and test can be supported by the Discrete Event Systems Specification (DEVS) simulation modeling formalism, and the System Entity Structure (SES) simulation model ontology. The book examines a wide variety of Systems of Systems (SoS) problems, ranging from cloud computing systems to biological systems in agricultural food crops. Features: includes numerous exercises, examples and case studies throughout the text; presents a step-by-step introduction to D...


This book offers a complete simulation system for modeling groundwater flow and transport processes. The companion full-version software (PMWIN) comes with a professional graphical user-interface, supported models and programs and several other useful modeling tools. Tools include a Presentation Tool, a Result Extractor, a Field Interpolator, a Field Generator, a Water Budget Calculator and a Graphic Viewer. Book targeted at novice and experienced groundwater modelers.
Introduction to Transportation Analysis, Modeling and Simulation: Computational Foundations and Multimodal Applications (Simulation Foundations, Methods and Applications)

This comprehensive textbook/reference provides an in-depth overview of the key aspects of transportation analysis, with an emphasis on modeling real transportation systems and executing the models. Topics and features: presents comprehensive review questions at the end of each chapter, together with detailed case studies, useful links, references and suggestions for further reading; supplies a variety of teaching support materials at the books webpage on Springer.com, including a complete set of...

Modeling and Simulation Fundamentals

An insightful presentation of the key concepts, paradigms, and applications of modeling and simulation. Modeling and simulation has become an integral part of research and development across many fields of study, having evolved from a tool to a discipline in less than two decades. Modeling and Simulation Fundamentals offers a comprehensive and authoritative treatment of the topic and includes definitions, paradigms, and applications to equip readers with the skills needed to work successfully as ...

Simulation Modeling Handbook

The use of simulation modeling and analysis is becoming increasingly more popular as a technique for improving or investigating process performance. This book is a practical, easy-to-follow reference that offers up-to-date information and step-by-step procedures for conducting simulation studies. It provides sample simulation project support material, including checklists, data-collection forms, and sample simulation project reports and publications to facilitate practitioners' efforts in conduc...

Simulation Modeling and Arena

Engineers will benefit from this book because it blends the theoretical aspects of simulations with a simulation package so they can put the concepts to practice. It utilizes the Arena Simulation Environment as the primary modeling tool for simulation. More detailed discussions of the statistical aspects of simulation are presented than are found in many other simulation language oriented textbooks. Special emphasis is placed on the computer programming aspects of simulation. The accompanying CD...

Related Topics

Pharmacokinetic Pharmacodynamic Modeling And Simulation Pdf
Pharmacokinetic Pharmacodynamic Modeling And Simulation Repost
Pharmacokinetic Pharmacodynamic Modeling And Simulation Peter L Bonate
System Modeling And Simulation Ppt
Modeling And Simulation Definition
Introduction To Modeling And Simulation Ppt
Introduction To Modeling And Simulation Mit
Stochastic Modeling Analysis And Simulation
Molecular Modeling And Simulation Download
Aircraft Dynamics From Modeling To Simulation