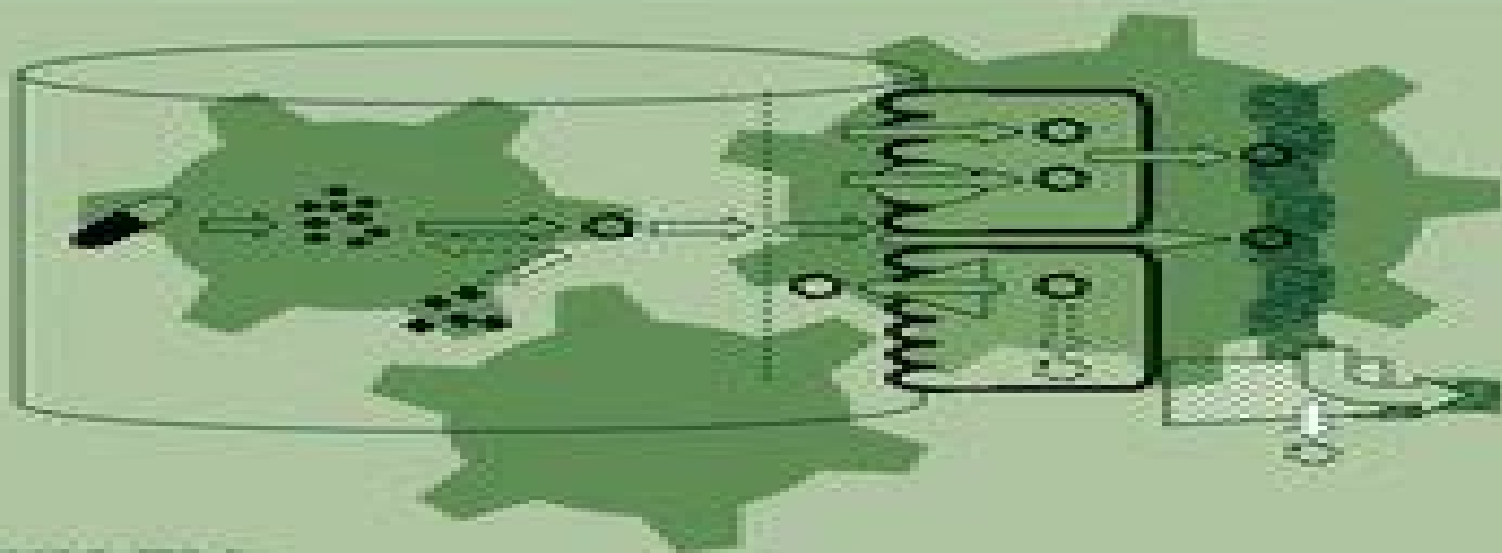


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Theory, Practice, Methods, and Applications

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Biopharmaceutics Modeling and Simulations Kiyohiko Sugano, 2012-07-31 A comprehensive introduction to using modeling and simulation programs in drug discovery and development Biopharmaceutical modeling has become integral to the design and development of new drugs Influencing key aspects of the development process including drug substance design formulation design and toxicological exposure assessment biopharmaceutical modeling is now seen as the linchpin to a drug's future success And while there are a number of commercially available software programs for drug modeling there has not been a single resource guiding pharmaceutical professionals to the actual tools and practices needed to design and test safe drugs A guide to the basics of modeling and simulation programs Biopharmaceutics Modeling and Simulations offers pharmaceutical scientists the keys to understanding how they work and are applied in creating drugs with desired medicinal properties Beginning with a focus on the oral absorption of drugs the book discusses The central dogma of oral drug absorption the interplay of dissolution solubility and permeability of a drug which forms the basis of the biopharmaceutical classification system BCS The concept of drug concentration How to simulate key drug absorption processes The physiological and drug property data used for biopharmaceutical modeling Reliable practices for reporting results With over 200 figures and illustrations and a peerless examination of all the key aspects of drug research including running and interpreting models validation and compound and formulation selection this reference seamlessly brings together the proven practical approaches essential to developing the safe and effective medicines of tomorrow **Discovering and Developing**

Molecules with Optimal Drug-Like Properties Allen C Templeton, Stephen R. Byrn, Roy J Haskell, Thomas E. Prisinzano, 2014-10-31 This authoritative volume provides a contemporary view on the latest research in molecules with optimal drug like properties It is a valuable source to access current best practices as well as new research techniques and strategies Written by leading scientists in their fields the text consists of fourteen chapters with an underlying theme of early collaborative opportunities between pharmaceutical and discovery sciences The book explores the practical realities of performing physical pharmaceutical and biopharmaceutical research in the context of drug discovery with short timelines and low compound availability Chapters cover strategies and tactics to enable discovery as well as predictive approaches to establish understand and communicate risks in early development It also examines the detection characterization and assessment of risks on the solid state properties of advanced discovery and early development candidates highlighting the link between solid state properties and critical development parameters such as solubility and stability Final chapters center on techniques to improve molecular solubilization and prevent precipitation with particularly emphasis on linking physiochemical properties of molecules to formulation selection in preclinical and clinical settings Advances in

Pharmacokinetics and Pharmacodynamics Panos Macheras, 2023-05-26 This book provides a concise overview of recent advances in Pharmacokinetics PK and Pharmacodynamics PD The pharmacokinetics section covers the state of the art in

Physiologically Based Pharmacokinetic PBPK modeling Chapter 1 as well as the assessment of food effect on drug absorption using PBPK modeling Chapter 2 Chapters 3 and 4 describe the recent development of Physiologically Based Finite Time Pharmacokinetic PBFTP models and their applications to pharmacokinetic data The pharmacodynamics section focuses on PK PD modeling Chapter 5 provides an overview of PK PD modeling and simulation in clinical practice and studies Chapter 6 deals with the subject physiology variability issue encountered in PK PD studies while Chapter 7 reviews the influence of clinical pharmacology in the modernization of drug development and regulation This book is an essential reference for pharmaceutical scientists *Biopharmaceutics and Pharmacokinetics Considerations*, 2021-07-07 Biopharmaceutics and Pharmacokinetics Considerations examines the history of biopharmaceutics and pharmacokinetics The book provides a biopharmaceutics and pharmacokinetics approach to addressing issues in formulation development and ethical considerations in handling animals Written by experts in the field this volume within the Advances in Pharmaceutical Product Development and Research series deepens understanding of biopharmaceutics and pharmacokinetics within drug discovery and drug development Each chapter delves into a particular aspect of this fundamental field to cover the principles methodologies and technologies employed by pharmaceutical scientists researchers and pharmaceutical industries to study the chemical and physical properties of drugs and the biological effects they produce Examines the most recent developments in biopharmaceutics and pharmacokinetics for pharmaceutical sciences Covers the principles methodologies and technologies of biopharmaceutics and pharmacokinetics Focuses on the pharmaceutical sciences but also encompasses aspects of toxicology neuroscience environmental sciences and nanotechnology ADME Processes in Pharmaceutical Sciences Alan Talevi, Pablo A. M. Quiroga, 2018-11-30 Absorption Distribution Metabolism and Excretion ADME processes and their relationship with the design of dosage forms and the success of pharmacotherapy form the basis of this upper level undergraduate graduate textbook As an introduction oriented to pharmacy students it is also written for scientist from different fields outside of pharmaceutics e g material scientist material engineers medicinal chemists who might be working in a positions in pharmaceutical companies or whose work might benefit from basic training in the ADME concepts and some biological background Pedagogical features such as objectives keywords discussion questions summaries and case studies add valuable teaching tools This book will provide not only general knowledge on ADME processes but also an updated insight on some hot topics such as drug transporters multi drug resistance related to pharmacokinetic phenomena last generation pharmaceutical carriers nanopharmaceuticals in vitro and in vivo bioequivalence studies biopharmaceuticals pharmacogenomics drug drug and food drug interactions and in silico and in vitro prediction of ADME properties In comparison with other similar textbooks around half of the volume would be focused on the relationship between expanding scientific fields and ADME processes Each of these burgeoning fields has a separate chapter in the second part of the volume and was written with leading experts on the correspondent topic including scientists and academics from USA and UK

Duquesne University School of Pharmacy Indiana University School of Medicine University of Utah College of Pharmacy University of Maryland University of Bath Additionally each of the initial chapters dealing with the generalities of drug absorption distribution metabolism and excretion would include relevant classic examples related to each topic with appropriate illustrations e g importance of active absorption of levodopa implications in levodopa administration drug drug interactions and food drug interactions emerging from the active uptake intoxication with paracetamol as a result of glutathione depletion CYP induction and its relationship with acute liver failure caused by paracetamol etc ADME Processes and Pharmaceutical Sciences is written as a core textbook for ADME processes pharmacy pharmacokinetics drug delivery biopharmaceutics drug disposition drug design and medicinal chemistry courses

Revising Oral Pharmacokinetics, Bioavailability and Bioequivalence Based on the Finite Absorption Time Concept Panos Macheras, Athanasios A. Tsekouras, 2023-01-01 This book casts new light on the field of oral drug absorption It outlines both the concept of the past and the novel concept of Finite Absorption Time FAT In addition the authors explore the correlated need for re definition of bioavailability bioequivalence providing a plethora of experimental data Accordingly this book is intended for academics students or scientists working in pharmaceutical industries regulatory agencies and contract research organizations It can be used for teaching purposes in under and post graduate courses dealing with biopharmaceutics pharmacokinetics and biomedical engineering

Polymorphism in the Pharmaceutical Industry Rolf Hilfiker, Markus von Raumer, 2019-01-04 Polymorphism in the Pharmaceutical Industry Solid Form and Drug Development highlights the relevance of polymorphism in modern pharmaceutical chemistry with a focus on quality by design QbD concepts It covers all important issues by way of case studies ranging from properties and crystallization via thermodynamics analytics and theoretical modelling right up to patent issues As such the book underscores the importance of solid state chemistry within chemical and pharmaceutical development It emphasizes why solid state issues are important the approaches needed to avoid problems and the opportunities offered by solid state properties The authors include true polymorphs as well as solvates and hydrates while providing information on physicochemical properties crystallization thermodynamics quantum mechanical modelling and up scaling Important analytical tools to characterize solid state forms and to quantify mixtures are summarized and case studies on solid state development processes in industry are also provided Written by acknowledged experts in the field this is a high quality reference for researchers project managers and quality assurance managers in pharmaceutical agrochemical and fine chemical companies as well as for academics and newcomers to organic solid state chemistry

Molecular Dynamics of Nanostructures and Nanoionics Junko Habasaki, 2020-11-30 Nanostructured materials with multiple components and complex structures are the current focus of research and are expected to develop further for material designs in many applications in electrochemical colloidal medical pharmaceutical and several other fields This book discusses complex nanostructured systems exemplified by nanoporous silicates spontaneously formed gels from silica nanocolloidal solutions

and related systems and examines them using molecular dynamics simulations Nanoporous materials nanocolloidal systems and gels are useful in many applications and can be used in electric devices and storage and for gas ion and drug delivery The book gives an overview of the history current status and frontiers of the field It also discusses the fundamental aspects related to the common behaviors of some of these systems and common analytical methods to treat them *Predictive ADMET* Jianling Wang,Laszlo Urban,2014-02-28 This book helps readers integrate in silico in vitro and in vivo ADMET absorption distribution metabolism elimination and toxicity and PK pharmacokinetics data with routine testing applications so that pharmaceutical scientists can diagnose ADMET problems and present appropriate recommendations to move drug discovery programs forward The book introduces the current clinical practice for drug discovery and development along with the impact on early risk assessment consolidates the tools and models to intelligently integrate existing in silico in vitro and in vivo ADMET data and demonstrates successful cases and lessons learned from real drug discovery and development In short it is a book aimed to provide a practical road map for drug discovery and development scientists to generate efficacious and safe drugs for unmet medical needs **Pharmacokinetic-Pharmacodynamic Modeling and Simulation** Peter L. Bonate,2006-05-14 A natural hierarchy exists in pharmacokinetic pharmacodynamic modeling culminating in population pharmacokinetic models which are a specific type of nonlinear mixed effects model The purpose of this book is to present through theory and example how to develop pharmacokinetic models both at an individual and population level In order to do so however one must first understand linear models and then build to nonlinear models followed by linear mixed effects models and then ultimately nonlinear mixed effects models This book develops in that manner each chapter builds upon previous chapters by first presenting the theory and then illustrating the theory using published data sets and actual data sets that were used in the development of new chemical entities collected by the author during his years in industry A key feature of the book is the process of modeling Most books and manuscripts often present the final model never showing how the model evolved In this book all examples are presented in an evolutionary manner

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