



Mathematical Modeling And Simulation Of Drug Release From

Prashant Kesharwani



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Mathematical Modeling and Numerical Simulation of Controlled Drug Release Rami Tzafiriri,2002

Encapsulation of Active Molecules and Their Delivery System Shirish Sonawane,Bharat A. Bhanvase,Sivakumar Manickam,2020-03-24 Encapsulation of Active Molecules and Their Delivery System covers the key methods of preparation of encapsulation as well as release mechanisms and their applications in food biotechnology metal protection drug delivery and micronutrients delivery in agriculture The book also provides real life examples of applications in food and other industries Sections encompasses i Synthesis and characterization methods of micro and nanocarriers as the delivery systems ii Up to date encapsulation techniques in the areas of pharmaceuticals nutraceuticals and corrosion iii The release methods of the encapsulated materials and iv Industry perspectives including scale up of the processes Focuses on encapsulation processes in chemical and materials engineering and biotechnology Provides a relevant resource for the pharmaceutical and food industries Presents wide coverage on the entrapment of molecules that scales up to industrial sized needs **Engineering**

Polymer Systems for Improved Drug Delivery Rebecca A. Bader,David A. Putnam,2014-01-17 Polymers have played a critical role in the rational design and application of drug delivery systems that increase the efficacy and reduce the toxicity of new and conventional therapeutics Beginning with an introduction to the fundamentals of drug delivery Engineering Polymer Systems for Improved Drug Delivery explores traditional drug delivery techniques as well as emerging advanced drug delivery techniques By reviewing many types of polymeric drug delivery systems and including key points worked examples and homework problems this book will serve as a guide to for specialists and non specialists as well as a graduate level text for drug delivery courses *Poly(lactic-co-glycolic acid) (PLGA) Nanoparticles for Drug Delivery* Prashant

Kesharwani,2023-03-02 Poly lactic co glycolic acid PLGA Nanoparticles for Drug Delivery is a comprehensive guide to PLGA nanoparticles for targeting various diseases covering principles formation characterization applications regulations and the latest advances Sections introduce the fundamental aspects of PLGA nanoparticles for drug delivery including properties preparation methods characterization drug loading methods and drug release mechanisms along with a focus on applications Application of PLGA nanoparticles for the treatment of cancer inflammatory cerebral cardiovascular and infectious diseases as well as in regenerative medicine photodynamic and photothermal therapy and gene therapy are all explained in detail The final chapters explore recent advances and regulatory aspects This book is a valuable resource for researchers and advanced students across nanomedicine polymer science bio based materials chemistry biomedicine biotechnology and materials engineering as well as for industrial scientists and R D professionals with an interest in nanoparticles for drug delivery pharmaceutical formulations and regulations and development of innovative biodegradable materials Presents the fundamentals of PLGA nanoparticles including properties preparation characterization and biofate and cellular interactions Provides in depth coverage of a broad range of specific applications of PLGA nanoparticles across disease treatment

regenerative medicine and therapeutic areas Offers a methodical approach to PLGA nanoparticles in drug delivery that is supported by data tables illustrative figures and flowcharts *Degradation of Implant Materials* Noam Eliaz, 2012-08-21 This book reviews the current understanding of the mechanical chemical and biological processes that are responsible for the degradation of a variety of implant materials All 18 chapters will be written by internationally renowned experts to address both fundamental and practical aspects of research into the field Different failure mechanisms such as corrosion fatigue and wear will be reviewed together with experimental techniques for monitoring them either in vitro or in vivo Procedures for implant retrieval and analysis will be presented A variety of biomaterials stainless steels titanium and its alloys nitinol magnesium alloys polyethylene biodegradable polymers silicone gel hydrogels calcium phosphates and medical devices orthopedic and dental implants stents heart valves breast implants will be analyzed in detail The book will serve as a broad reference source for graduate students and researchers studying biomedicine corrosion surface science and electrochemistry

Mathematical Modeling and Simulation of Intravascular Drug Delivery from Drug-eluting Stents with Biodegradable PLGA Coating, 2014 Drug eluting stents DES are commonly used in coronary angioplasty procedures A DES elutes drug compounds from a thin polymeric coating into the surrounding coronary artery tissue to reduce in stent restenosis a significant lumen loss due to growth of vascular tissue Biodurable non erodible polymers are often used in the current DES coatings which stay permanently in the patients While promising treatment results were obtained in stent restenosis remains an issue and late in stent thrombosis which is associated with hypersensitivities to the polymer coatings is also reported Increasing interests have been raised towards the design of a more biocompatible coating in particular a poly lactic acid co glycolic acid PLGA coating for DES applications to improve the drug delivery and reduce adverse outcomes in patients This dissertation aims to develop a mathematical model for describing the process of drug release from a biodegradable PLGA stent coating and subsequent drug transport pharmacokinetics and distribution in the arterial wall A model framework is developed in the first part of the dissertation where a biodurable stent coating is considered and the intravascular delivery of a hydrophobic drug from an implanted DES in a coronary artery is mathematically modeled The model integrates drug diffusion in the coating with drug diffusion and reversible drug binding in the arterial wall The model was solved by the finite volume method The drug diffusivities in the coating and in the arterial wall were investigated for the impact on the drug release and arterial drug uptake In particular anisotropic vascular drug diffusivities result in slightly different average arterial drug levels but can lead to very different spatial drug distributions and is likely related to the reported non uniform restenosis thickness distribution in the artery cross section The second part of the dissertation focuses on modeling drug transport in a biodegradable poly D L lactic co glycolic acid PLGA coating A mathematical model for the PLGA degradation erosion and coupled drug release from PLGA stent coating is developed and validated An analytical expression is derived for PLGA mass loss The drug transport model incorporates simultaneous drug diffusion through both the polymer solid and the

liquid filled pores in the coating where an effective drug diffusivity model is derived taking into account factors including polymer molecular weight change stent coating porosity change and drug partitioning between solid and aqueous phases The model predicted in vitro sirolimus release from PLGA stent coating and demonstrated the significance of the developed model by comparing with existing drug transport models An integrated model for intravascular drug delivery from a PLGA coated DES is developed in the last part of the dissertation The integrated model describes the processes of drug release in a PLGA coating and subsequent drug delivery distribution and drug pharmacokinetics in the arterial wall Model simulations first compared a biodegradable PLGA coating with a biodegradable coating for stent based drug delivery The simulations further investigated drug internalization interstitial fluid flow in the arterial wall and stent embedment for impact on the drug release and arterial drug distribution of a PLGA coated stent These three factors greatly change the average drug concentrations in the arterial wall Each factor leads to significant and distinguished alterations in the arterial drug distribution that can potentially influence the treatment outcomes The developed model here provides the basis of a design tool for evaluating and studying a PLGA coating for stent applications Simulations using the model helped to provide insights into the potential impacts of various factors that can affect the efficacy of drug delivery With the developed model optimization of the model parameters can also be performed for future exploration on the design of PLGA coated drug eluting stents

Recent Developments in Microbiology, Biotechnology and Pharmaceutical Sciences B.

Sundaravadivazhagan, Sekar Mohan, Balakrishnaraja Rengaraju, 2025-05-06 The Conference brought together innovative academics and industrial experts in the field of Medical Biological and Pharmaceutical Sciences to a common forum The primary goal of the conference was to promote research and developmental activities in Medical Biological and Pharmaceutical Sciences Another goal was to promote scientific information interchange between researchers developers engineers students and practitioners working in and around the world

Mathematical Model and Simulation of Controlled Drug Release from Coated Pellets, 2007 *Chemical Engineering in the Pharmaceutical Industry* Mary T. am Ende, David J. am Ende, 2019-04-01 A guide to the important chemical engineering concepts for the development of new drugs revised second edition The revised and updated second edition of *Chemical Engineering in the Pharmaceutical Industry* offers a guide to the experimental and computational methods related to drug product design and development The second edition has been greatly expanded and covers a range of topics related to formulation design and process development of drug products The authors review basic analytics for quantitation of drug product quality attributes such as potency purity content uniformity and dissolution that are addressed with consideration of the applied statistics process analytical technology and process control The 2nd Edition is divided into two separate books 1 Active Pharmaceutical Ingredients API s and 2 Drug Product Design Development and Modeling The contributors explore technology transfer and scale up of batch processes that are exemplified experimentally and computationally Written for engineers working in the field the book examines in

silico process modeling tools that streamline experimental screening approaches In addition the authors discuss the emerging field of continuous drug product manufacturing This revised second edition Contains 21 new or revised chapters including chapters on quality by design computational approaches for drug product modeling process design with PAT and process control engineering challenges and solutions Covers chemistry and engineering activities related to dosage form design and process development and scale up Offers analytical methods and applied statistics that highlight drug product quality attributes as design features Presents updated and new example calculations and associated solutions Includes contributions from leading experts in the field Written for pharmaceutical engineers chemical engineers undergraduate and graduation students and professionals in the field of pharmaceutical sciences and manufacturing Chemical Engineering in the Pharmaceutical Industry Second Edition contains information designed to be of use from the engineer s perspective and spans information from solid to semi solid to lyophilized drug products

Chemical Engineering in the Pharmaceutical Industry David J. am Ende,2011-03-10 This book deals with various unique elements in the drug development process within chemical engineering science and pharmaceutical R D The book is intended to be used as a professional reference and potentially as a text book reference in pharmaceutical engineering and pharmaceutical sciences Many of the experimental methods related to pharmaceutical process development are learned on the job This book is intended to provide many of those important concepts that R D Engineers and manufacturing Engineers should know and be familiar if they are going to be successful in the Pharmaceutical Industry These include basic analytics for quantitation of reaction components often skipped in ChE Reaction Engineering and kinetics books In addition Chemical Engineering in the Pharmaceutical Industry introduces contemporary methods of data analysis for kinetic modeling and extends these concepts into Quality by Design strategies for regulatory filings For the current professionals in silico process modeling tools that streamline experimental screening approaches is also new and presented here Continuous flow processing although mainstream for ChE is unique in this context given the range of scales and the complex economics associated with transforming existing batch plant capacity The book will be split into four distinct yet related parts These parts will address the fundamentals of analytical techniques for engineers thermodynamic modeling and finally provides an appendix with common engineering tools and examples of their applications

Multi-Functional Nanoscale Materials and their Potential Applications Alagarsamy Pandikumar,Nay Ming Huang,Hong Ngee Lim,2014-11-26 Special topic volume with invited peer reviewed papers only

Fast Computational Techniques for Multiscale Electromagnetic Simulations Vikram Melapudi,2009 *Modeling and Simulation* ,1986

Mathematical Modeling of Cell Movement and Tumor Spheroid Growth in Vitro YangJin Kim,2006

Mathematical Reviews ,2004

Controlled Drug Delivery Kinam Park,1997 This volume discusses the challenges of creating controlled release dosage forms that will deliver new therapeutic agents based on high molecular weight molecules It examines strategies for delivering drugs through resistant biological barriers and surveys a variety of

topics including drug targeting self regulated drug delivery protein drug delivery biosensors cell and tissue engineering new biomaterials modeling methods pharmacokinetics and U S federal regulations A PHYSIOLOGICAL FLOW MODEL FOR THE GASTROINTESTINAL ABSORPTION AND PLASMA KINETICS OF ASPIRIN. Elizabeth M. Topp,1986 This result was qualitatively confirmed by experiments in rats Dosage forms which release aspirin in the jejunum rather than the stomach are therefore postulated to provide more effective antiplatelet activity **Proceedings in Print** ,1990 **Dissertation Abstracts International** ,2009 **New Delivery Systems for Controlled Drug from Naturally Occuring Materials** Nicholas Parris,2008-11-27 This book is directed toward the use of natural materials in the development of novel drug delivery systems and regeneration technologies

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