

Handbook Of Encapsulation And Controlled Release

Sustained and Controlled Release Drug Delivery Systems Medical Applications of Controlled Release Controlled Release in Oral Drug Delivery Controlled Release in Oral Drug Delivery Controlled Release of Biologically Active Agents Controlled Drug Delivery Handbook of Encapsulation and Controlled Release Handbook of Pharmaceutical Controlled Release Technology Controlled Release of Bioactive Materials Oral Controlled Release Formulation Design and Drug Delivery Encapsulation and Controlled Release Technologies in Food Systems Controlled Release Applications of Encapsulation and Controlled Release Controlled Release Technologies Fundamentals and Applications of Controlled Release Drug Delivery Fundamentals and Applications of Controlled Release Drug Delivery Modeling and Control of Drug Delivery Systems Veterinary Applications of Controlled Drug Delivery Treatise on Controlled Drug Delivery Design of Controlled Release Drug Delivery Systems Joseph R. Robinson Robert S. Langer Clive G. Wilson Richard W. Baker Joseph R. Robinson Munmaya Mishra Donald L. Wise Richard Baker Hong Wen Dr Jamileh M. Lakkis Liang-tseng Fan Munmaya K. Mishra Ruth Duncan Juergen Siepmann Ahmad Taher Azar Controlled Release Society. Workshop Agis F. Kydonieus Xiaoling Li

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Joseph R. Robinson Munmaya Mishra Donald L. Wise Richard Baker Hong Wen Dr Jamileh M. Lakkis Liang-tseng Fan Munmaya K. Mishra Ruth Duncan Juergen Siepmann Ahmad Taher Azar Controlled Release Society. Workshop Agis F. Kydonieus Xiaoling Li

first published in 1984 this book offers a full comprehensive guide into drug administration carefully compiled and filled with a vast repertoire of notes pictures and references this book serves as a useful reference for students of medicine and other practitioners in their respective fields

controlled release in oral drug delivery provides focus on specific topics complementing other books in the initial crs series each chapter sets the context for the inventions described and describe the latitude that the inventions allow in order to provide some similar look to each chapter the coverage includes the historical overview candidate drugs factors influencing design and development formulation and manufacturing and delivery system design this volume was written along three main sections the relevant anatomy and physiology a discussion on candidates for oral drug delivery and the major three groups of controlled release systems diffusion control swelling and inert matrices environmental control ph sensitive coatings time control enzymatic control pressure control and finally lipidic systems

controlled release technology enhances the beneficial effects of drugs agrochemicals and other biologically active agents this monograph offers background on the terms concepts mathematical and chemical principles and the advantages of controlled release technology treats each of the major techniques of achieving controlled release diffusion biodegradation osmosis and mechanical systems describes and compares the numerous materials used in controlled release devices presents techniques for device preparation and evaluation describes the most significant commercially available controlled release products

the field of encapsulation especially microencapsulation is a rapidly growing area of research and product development the handbook of encapsulation and controlled release covers the entire field presenting the fundamental processes involved and exploring how to use those processes for different applications in industry written at a level comp

the handbook of pharmaceutical controlled release technology reviews the design fabrication methodology administration and classifications of various drug delivery systems including matrices and membrane controlled reservoir bioerodible and pendant chain systems contains cutting edge research on the controlled delivery of biomolecules discussing the advantages and limitations of controlled release systems the handbook of pharmaceutical controlled release technology covers oral transdermal parenteral and implantable delivery of drugs discusses modification methods to achieve desired release kinetics highlights constraints of system design for practical clinical application analyzes diffusion equations and mathematical modeling considers environmental acceptance and tissue compatibility of biopolymeric systems for biologically active agents evaluates polymers as drug delivery carriers describes peptide protein micro and nanoparticulate release systems examines the cost comfort disease control side effects and patient compliance of numerous delivery systems and devices and more

controlled release of bioactive materials is a collection papers that deal with the study of controlled release applications in drugs and other pharmacological products and processes the text covers topics such as the theory and practice of controlled drug delivery from bioerodible polymers biodegradable drug delivery systems from aliphatic polyesters and the applications of osmotic drug delivery also covered are topics such as the application of polymers for the sustained release of macromolecules controlled transdermal delivery and the use of hydrogel devices for the controlled release of steroid hormones the book is recommended for pharmacologists and doctors who would like to know more about advancements in the field of controlled release applications and its uses in healthcare especially in pharmacology

this book describes the theories applications and challenges for different oral controlled release formulations this book differs from most in its focus on oral controlled release formulation design and process development it also covers the related areas like preformulation biopharmaceutics in vitro in vivo correlations ivivc quality by design qbd and regulatory issues

in encapsulation and controlled release technologies in food systems editor lakkis has gathered a highly respected collection of expert contributors from industry and academia to highlight recent innovations in encapsulation and controlled release technologies in food systems unlike most recent publications which dealt exclusively with theoretical aspects of these technologies this volume focuses mainly on devising effective and innovative

applications in food systems in which these delivery vehicles operate in addition the book provides some emphasis on new opportunities that may arise from the development of new materials for the design and fabrication of delivery vehicles and carriers encapsulation and controlled release technologies gives the reader a solid grasp of basic concepts of encapsulation technologies and their novel applications in food systems dr lakkis also presents novel possibilities of encapsulation and controlled release along with a discussion on future perspectives and economical implications of these technologies

the concept of controlled release has attracted increasing attention over the last two decades with the applications of this technology proliferating in diverse fields including medicine agriculture and biotechnology research and developmental efforts related to controlled release are multiplying in both industry and academia the reason for this phenomenal growth is obvious the use of a variety of biologically active agents such as drugs fertilizers and pesticides has become an integral part of modern society along with the use of these reagents has evolved an awareness that their uncontrolled application almost inevitably induces harmful effects on the health of humans and their surrounding environments to eliminate or minimize these harmful effects necessitates the controlled release of these chemicals moreover the controlled release of substances not usually considered toxic or hazardous e g some catalysts and nutrients can enhance their effectiveness the number and variety of controlled release systems differing in their physical and chemical makeup are increasing rapidly proliferation almost always demands correlation generalization and unification it requires both the development of underlying theories of their behavior and the mechanistic interpretation of their performance this in turn requires a statistical and mathematical quantitative treatment of the scientific information and technical data pertaining to them a quantitative treatment can also facilitate the formulation of procedures for computer aided design of these systems through a priori prediction of their performance for a variety of design parameters

the field of encapsulation especially microencapsulation is a rapidly growing area of research and product development applications of encapsulation and controlled release offers a broad perspective on a variety of applications and processes including up to date research figures tables illustrations and references written at a level comprehensible to non experts it is a rich source of technical information and current practices in research and industry

this book approaches the subject from a mechanistic perspective that pitches the language at a level that is understandable to those entering the field and who are not familiar with its common phrases or complex terms it provides a simple encapsulation of concepts and expands on them in each

chapter the basic concept is explained as simply and clearly as possible without a great deal of detail then in subsequent sections additional material exceptions to the general rule examples etc is introduced and built up such material was generously supplemented with diagrams conceptually elegant line diagrams in two or three colors the artwork was well thought out and able to condense the scientific principles into a novel and visually exciting form the diagrams encourage browsing or draw the reader to salient points in addition the technique of highlighting key concepts in a separate box is used throughout each chapter

modeling and control of drug delivery systems provides comprehensive coverage of various drug delivery and targeting systems and their state of the art related works ranging from theory to real world deployment and future perspectives various drug delivery and targeting systems have been developed to minimize drug degradation and adverse effect and increase drug bioavailability site specific drug delivery may be either an active and or passive process improving delivery techniques that minimize toxicity and increase efficacy offer significant potential benefits to patients and open up new markets for pharmaceutical companies this book will attract many researchers working in dds field as it provides an essential source of information for pharmaceutical scientists and pharmacologists working in academia as well as in the industry in addition it has useful information for pharmaceutical physicians and scientists in many disciplines involved in developing dds such as chemical engineering biomedical engineering protein engineering gene therapy presents some of the latest innovations of approaches to dds from dynamic controlled drug delivery modeling system analysis optimization control and monitoring provides a unique recent and comprehensive reference on dds with the focus on cutting edge technologies and the latest research trends in the area covers the most recent works in particular the challenging areas related to modeling and control techniques applied to dds

an introductory but detailed treatise which includes some 1 000 references and solved examples and end of chapter problems making it useful to both students and practitioners the pharmacokinetics pharmacodynamics and biological and biopharmaceutical parameters pertinent to each route of administra

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