



Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering)

By Xiaoling Li

Download now

Read Online 

Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li

The goal of every drug delivery system is to deliver the precise amount of a drug at a pre-programmed rate to the desired location in order to achieve the drug level necessary for the treatment. An essential guide for biomedical engineers and pharmaceutical designers, this resource combines physicochemical principles with physiological processes to facilitate the design of systems that will deliver medication at the time and place it is most needed.

 [Download Design of Controlled Release Drug Delivery Systems ...pdf](#)

 [Read Online Design of Controlled Release Drug Delivery Syste ...pdf](#)

Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering)

By Xiaoling Li

Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li

The goal of every drug delivery system is to deliver the precise amount of a drug at a pre-programmed rate to the desired location in order to achieve the drug level necessary for the treatment. An essential guide for biomedical engineers and pharmaceutical designers, this resource combines physicochemical principles with physiological processes to facilitate the design of systems that will deliver medication at the time and place it is most needed.

Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li Bibliography

- Rank: #3372141 in Books
- Brand: Xiaoling Li
- Published on: 2005-11-24
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 1.53" w x 6.20" l, 1.69 pounds
- Binding: Hardcover
- 435 pages



[Download Design of Controlled Release Drug Delivery Systems ...pdf](#)



[Read Online Design of Controlled Release Drug Delivery Syste ...pdf](#)

Download and Read Free Online Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li

Editorial Review

From the Back Cover

A RIGOROUS EXPLORATION OF THE STATE OF THE ART IN CONTROLLED RELEASE DRUG DELIVERY

Written by an International team of experts, this comprehensive text offers pharmaceutical scientists and engineers working in the field, state-of-the-art design principles for the development and bioengineering of drug delivery systems/technology. Readers will find drug delivery systems presented with a particular emphasis on the design principles and their physiological/pathological basis. For each specific design principle, the contributors briefly introduce the relevant pharmacokinetics (where necessary) and include the challenges of different biological barriers that need to be overcome.

This in-depth text features detailed coverage of:

- Physiological and biochemical barriers to drug delivery
- Pharmacokinetics and pharmacodynamics of drug delivery
- Diffusion and dissolution strategies
- Prodrugs
- Bioadhesive and gastric retentive systems
- Physiological and biochemical barriers to drug delivery
- Targeted drug delivery
- Device controlled and programmable drug delivery
- And more

A COMPREHENSIVE REFERENCE ON THE BIOCHEMICAL, PHYSICAL, AND TECHNICAL ASPECTS OF DRUG DELIVERY SYSTEMS

* Pharmacokinetics and Pharmacodynamics: Applications in the Design of Controlled Release Drug Delivery Systems * Barriers to Drug Delivery: Physiological and Biochemical Aspects * Prodrugs as Delivery Systems * Diffusion Controlled Systems * Dissolution Controlled Systems * Osmotic Controlled Systems * Biodegradable Polymeric Delivery Systems * Gastric Retention Retentive Dosage Forms * Device Controlled Delivery of Powders * Physical Targeting of Approaches for Drug Delivery * Ligand Based Drug Targeting Approaches for Drug Delivery * Programmable Drug Delivery Systems * Carrier and Vector Mediated Delivery Systems for Biological Macromolecules

About the Author

Xiaoling Li, Ph.D., is a Professor and Chair of the Department of Pharmaceutics and Medicinal Chemistry, Thomas J. Long School of Pharmacy & Health Sciences, University of the Pacific, Stockton, California. Professor Li received his Ph.D. degree from the University of Utah and had his post doctoral training at Ciba-Geigy (now Novartis). His research interests are focused on design and synthesis of novel polymers for pharmaceutical and biomedical applications, targeted drug delivery, and transport of drug across biological barriers. He holds two patents, published 38 papers, and had more than 70 presentations at national and international conferences. He serves as a consultant for various pharmaceutical and biotechnology companies.

Bhaskara R. Jasti, Ph.D. is an Associate Professor in the Department of Pharmaceutics and Medicinal

Chemistry, Thomas J. Long School of Pharmacy & Health Sciences, University of the Pacific, Stockton, California. Prior to joining the University of the Pacific, he worked as a Staff Scientist at Cygnus Therapeutics Systems, an Assistant Professor at Wayne State University in the Departments of Pharmacy and Internal Medicine, where he also acted as an Assistant Director of pharmacology core. His current research interests are identifying barriers for drug delivery and the design of targeted and mucosal drug delivery systems. Dr. Jasti has published more than 50 papers at various national and international meetings.

Users Review

From reader reviews:

Frances Lawler:

Within other case, little persons like to read book Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering). You can choose the best book if you like reading a book. Given that we know about how is important the book Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering). You can add understanding and of course you can around the world by way of a book. Absolutely right, simply because from book you can realize everything! From your country right up until foreign or abroad you will be known. About simple factor until wonderful thing it is possible to know that. In this era, we could open a book as well as searching by internet system. It is called e-book. You should use it when you feel weary to go to the library. Let's learn.

Anna Yates:

Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) can be one of your beginner books that are good idea. We all recommend that straight away because this publication has good vocabulary that can increase your knowledge in vocab, easy to understand, bit entertaining but still delivering the information. The article writer giving his/her effort to get every word into enjoyment arrangement in writing Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) but doesn't forget the main point, giving the reader the hottest as well as based confirm resource details that maybe you can be certainly one of it. This great information may drawn you into fresh stage of crucial contemplating.

Nona Whitehouse:

Beside this kind of Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) in your phone, it may give you a way to get nearer to the new knowledge or data. The information and the knowledge you are going to got here is fresh from oven so don't become worry if you feel like an old people live in narrow commune. It is good thing to have Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) because this book offers for your requirements readable information. Do you often have book but you do not get what it's exactly about. Oh come on, that will not happen if you have this inside your hand. The Enjoyable agreement here cannot be questionable, including treasuring beautiful island. Use you still want to miss the idea? Find this book and also read it from at this point!

Chris McCree:

This Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) is brand-new way for you who has intense curiosity to look for some information as it relief your hunger info. Getting deeper you onto it getting knowledge more you know or perhaps you who still having little bit of digest in reading this Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) can be the light food for you because the information inside this particular book is easy to get by simply anyone. These books create itself in the form that is reachable by anyone, yeah I mean in the e-book contact form. People who think that in reserve form make them feel tired even dizzy this publication is the answer. So you cannot find any in reading a e-book especially this one. You can find what you are looking for. It should be here for you actually. So , don't miss it! Just read this e-book sort for your better life and knowledge.

Download and Read Online Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li #M02KQS9TWYF

Read Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li for online ebook

Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li books to read online.

Online Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li ebook PDF download

Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li Doc

Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li MobiPocket

Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li EPub

M02KQS9TWYF: Design of Controlled Release Drug Delivery Systems (McGraw-Hill Chemical Engineering) By Xiaoling Li