



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

By Xiaoling Li

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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.

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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.

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