

Design of Controlled Release Drug Delivery Systems



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This is 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; rods and 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, this title includes: 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; and, Carrier and Vector Mediated Delivery Systems for Biological Macromolecules.

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