



Modeling in Biopharmaceutics, Pharmacokinetics and Pharmacodynamics: 30 (Interdisciplinary Applied Mathematics)

Panos Macheras, Athanassios Iliadis

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The state of the art in Biopharmaceutics, Pharmacokinetics, and Pharmacodynamics Modeling is presented in this book. It shows how advanced physical and mathematical methods can expand classical models in order to cover heterogeneous drug-biological processes and therapeutic effects in the body. The book is divided into four parts; the first deals with the fundamental principles of fractals, diffusion and nonlinear dynamics; the second with drug dissolution, release, and absorption; the third with empirical, compartmental, and stochastic pharmacokinetic models, and the fourth mainly with nonclassical aspects of pharmacodynamics. The classical models that have relevance and application to these sciences are also considered throughout. Many examples are used to illustrate the intrinsic complexity of drug administration related phenomena in the human, justifying the use of advanced modeling methods. This timely and useful book will appeal to graduate students and researchers in pharmacology, pharmaceutical sciences, bioengineering, and physiology.

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