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Pharmacokinetics: Processes, Mathematics, And Applications (ACS Professional Reference Book)



Synopsis

Pharmacokinetics is the study of the absorption, distribution, metabolism, and excretion of drugs in humans. This book, written by an internationally known researcher, teaches the basic principles, including drug transport, parenteral and enteral routes of drug administration, and factors affecting drug absorption, distribution, and metabolism. Extensively revised, this edition presents the mathematics of pharmacokinetics with various single- and multi-compartment models including detailed descriptions of metabolite and nonlinear pharmacokinetics. It also describes renal and hepatic drug clearance, and the influence of kidney and liver impairment on these functions. Taking a tutorial approach throughout, the author provides both a clear introduction to pharmacokinetics and a critical look at how this science affects drug discovery and development.

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