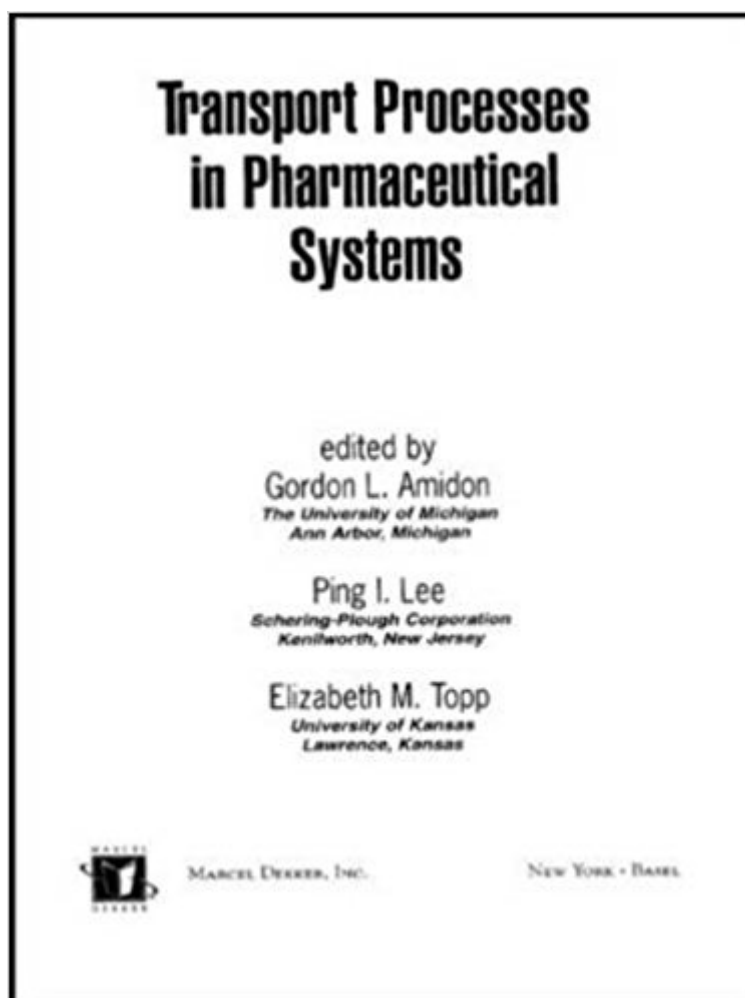


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# Transport Processes In Pharmaceutical Systems (Drugs And The Pharmaceutical Sciences)



## Synopsis

This cutting-edge reference clearly explains pharmaceutical transport phenomena, demonstrating applications ranging from drug or nutrient uptake into vesicle or cell suspensions, drug dissolution and absorption across biological membranes, whole body kinetics, and drug release from polymer reservoirs and matrices to heat and mass transport in freeze-drying and hygroscopicity. Focuses on practical applications of drug delivery from a physical and mechanistic perspective, highlighting biological systems. Written by more than 30 international authorities in the field, *Transport Processes in Pharmaceutical Systems* discusses the crucial relationship between the transport process and thermodynamic factors, analyzes the dynamics of diffusion at liquid-liquid, liquid-solid, and liquid-cultured cell interfaces, covers prodrug design for improving membrane transport, addresses the effects of external stimuli in altering some natural and synthetic polymer matrices, examines properties of hydrogels, including synthesis, swelling degree, swelling kinetics, permeability, biocompatibility, and biodegradability, presents mass transfer of drugs and pharmacokinetics based on mass balance descriptions, and more! Containing over 1000 references and more than 1100 equations, drawings, photographs, micrographs, and tables, *Transport Processes in Pharmaceutical Systems* is a must-read resource for research pharmacists, pharmaceutical scientists and chemists, chemical engineers, physical chemists, and upper-level undergraduate and graduate students in these disciplines.

## Book Information

Series: Drugs and the Pharmaceutical Sciences (Book 102)

Hardcover: 748 pages

Publisher: CRC Press; 1st edition (November 24, 1999)

Language: English

ISBN-10: 0824766105

ISBN-13: 978-0824766108

Product Dimensions: 1.5 x 6.5 x 9.2 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

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Best Sellers Rank: #4,153,963 in Books (See Top 100 in Books) #35 in [Books > Medical Books > Pharmacology > Drug Delivery Systems](#) #1388 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Biochemistry](#) #2180 in [Books > Science & Math > Chemistry > Industrial & Technical](#)

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