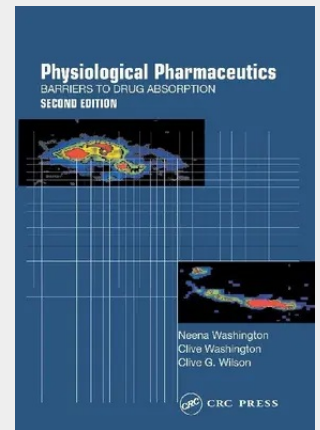


Physiological Pharmaceutics

Barriers to Drug Absorption

In recent years, the emphasis in drug development has been the design of new delivery systems rather than new drugs. It is the aim of innovative pharmaceutical scientists to design the new dosage forms to overcome the body's barrier mechanisms which have specifically evolved to exclude foreign material. This book provides an integrated approach to the study of drug formulation in the body with the emphasis on the formulation variables rather than the drugs. The link between physiology and pharmaceutics is presented to give an essential background of biological principles for the pharmacy student, pharmaceutical formulator and healthcare professional. Complex mathematical aspects of physical chemistry have been avoided to facilitate understanding, enabling the reader to concentrate on how the biological environment affects the performance of the drugs and dosage forms. As the majority of drugs are administered via the oral route a large proportion of the book is devoted to the gastrointestinal tract and the variation in the capacity for drug absorption which occurs along its length. Transdermal, ocular, pulmonary and nasal drug delivery are discussed in detail. New chapters in the book include 'Vaginal drug delivery', the 'Blood brain barrier' and 'Parenteral drug delivery'.

Physiological Pharmaceutics 2nd Edition has been written to meet the need for a high quality up to date and accessible pharmacology textbook. The book has a breadth of subject coverage designed to bridge the gap between classical pharmacy and the biological sciences giving students an overview of the biological environment in which drugs are expected to perform. Based upon the popular first edition, the second edition has been extensively revised and updated with the student in mind. It has undergone a thorough overhaul of its artwork and figures and includes the latest in new developments and research results. As in its predecessor, the authors have avoided any unnecessary mathematical complexity that is not central to the students understanding of the core subject. Physiological Pharmaceutics provides an integrated approach to the study of drug formulation in the body with the emphasis on the formulation variables rather than the drugs. The link between physiology and pharmaceutics is presented to give an essential background of biological principles for the pharmacy student.



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