



Drug-Biomembrane Interaction Studies: The Application of Calorimetric Techniques (Woodhead Publishing Series in Biomedicine)

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The design and development of drugs and new pharmaceutical formulations require a full characterization of the chemical and physicochemical events occurring at the level of the single active ingredients or excipients, as well as their reciprocal interaction. Thermal analysis techniques are among the most widely used methods to achieve this; among them, the Differential Scanning Calorimetry (DSC) technique, in which the thermotropic behaviour of a single substance or mixtures is analyzed as a function of a controlled temperature program. DSC is an accurate and rapid thermo-analytical technique, widely used by the pharmaceutical industry and in drug research to investigate several physico-chemical phenomena, such as polymorphism, melting and crystallization, purity, and drug-excipient interaction; as well as characterizing biomolecules such as genetic material.

Drug-biomembrane interaction studies is written by scientists renowned for their work in the field of DSC applications to drug development and delivery, and especially to drug-biomembrane interaction studies. The book combines insights from biochemistry and physiology with those from structural biology, nanotechnology and biothermodynamics, to obtain a complete depiction of cell membranes and their functions.

- Summarizes and updates the recent development in a unique handbook format
- Consists of a combination of scientific updates within the field
- Contains chapters written by some of the highest-level experts in the field of DSC

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