

Cyclodextrins in pharmaceuticals, cosmetics, and biomedicine : current and future industrial applications

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20377210&lokasi=lokal>

Abstrak

Cyclodextrins in Pharmaceuticals, Cosmetics, and Biomedicine covers a wide range of knowledge on cyclodextrins, from an overview of molecular and supramolecular aspects of cyclodextrin physicochemistry, to the latest outcomes in cyclodextrin use and future possibilities in the employment of these systems. This book focuses on the derivatives and physicochemical and biological properties of cyclodextrins, and considers drug delivery through topical, mucosal, and oral via cyclodextrin complexes.

This book consists of two main sections. Part I focuses on the general physicochemical properties of cyclodextrins, such as complexation, as well as drug solubilization and stabilization, which made them come into use in the first place, followed by specific chapters dedicated to various routes of administration, such as oral, mucosal, and skin. Part II consists of novel and specialized applications of cyclodextrins based on the diversity of modified cyclodextrins. A major group of novel cyclodextrin derivatives are amphiphilic cyclodextrins with different surface charges.