

The book was found

# Hot-Melt Extrusion: Pharmaceutical Applications



## Synopsis

Hot-melt extrusion (HME) - melting a substance and forcing it through an orifice under controlled conditions to form a new material - is an emerging processing technology in the pharmaceutical industry for the preparation of various dosage forms and drug delivery systems, for example granules and sustained release tablets. Hot-Melt Extrusion: Pharmaceutical Applications covers the main instrumentation, operation principles and theoretical background of HME. It then focuses on HME drug delivery systems, dosage forms and clinical studies (including pharmacokinetics and bioavailability) of HME products. Finally, the book includes some recent and novel HME applications, scale-up considerations and regulatory issues. Topics covered include: principles and the design of single screw extrusion twin screw extrusion techniques and practices in the laboratory and on production scale HME developments for the pharmaceutical industry solubility parameters for prediction of drug/polymer miscibility in HME formulations the influence of plasticizers in HME applications of polymethacrylate polymers in HME HME of ethylcellulose, hypromellose, and polyethylene oxide bioadhesion properties of polymeric films produced by HME taste masking using HME clinical studies, bioavailability and pharmacokinetics of HME products injection moulding and HME processing for pharmaceutical materials laminar dispersive & distributive mixing with dissolution and applications to HME technological considerations related to scale-up of HME processes devices and implant systems by HME an FDA perspective on HME product and process understanding improved process understanding and control of an HME process with near-infrared spectroscopy Hot-Melt Extrusion: Pharmaceutical Applications is an essential multidisciplinary guide to the emerging pharmaceutical uses of this processing technology for researchers in academia and industry working in drug formulation and delivery, pharmaceutical engineering and processing, and polymers and materials science. This is the first book from our brand new series Advances in Pharmaceutical Technology. Find out more about the series here.

## Book Information

Hardcover: 382 pages

Publisher: Wiley; 1 edition (June 25, 2012)

Language: English

ISBN-10: 0470711183

ISBN-13: 978-0470711187

Product Dimensions: 6.9 x 1 x 9.9 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,528,067 in Books (See Top 100 in Books) #84 in Books > Medical Books > Pharmacology > Product Development #1072 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles #2084 in Books > Textbooks > Medicine & Health Sciences > Allied Health Services > Pharmacy

[Download to continue reading...](#)

Hot-Melt Extrusion: Pharmaceutical Applications  
Pharmaceutical Particulate Carriers: Therapeutic Applications (Drugs and the Pharmaceutical Sciences)  
Pharmaceutical Analysis: A Textbook for Pharmacy Students and Pharmaceutical Chemists, 3e  
Pharmaceutical Analysis: A Textbook for Pharmacy Students and Pharmaceutical Chemists  
Transport Processes in Pharmaceutical Systems (Drugs and the Pharmaceutical Sciences)  
Pharmaceutical Pelletization Technology (Drugs and the Pharmaceutical Sciences)  
The Clinical Audit in Pharmaceutical Development (Drugs and the Pharmaceutical Sciences)  
Pharmaceutical & Biotech Patent Law (Pharmaceutical and Biotech Patent Law)  
Pharmaceutical Analysis: A Textbook for Pharmacy Students and Pharmaceutical Chemists, 2e  
Pharmaceutical Dissolution Testing (Drugs and the Pharmaceutical Sciences)  
Pharmaceutical Dosage Forms: Tablets, Third Edition (Three-Volume Set): Pharmaceutical Dosage Forms: Tablets, Volume 1, Second Edition  
Pharmaceutical Process Engineering (Drugs and the Pharmaceutical Sciences)  
Extrusion Detection: Security Monitoring for Internal Intrusions  
Understanding Extrusion 2E  
Extrusion, Second Edition: The Definitive Processing Guide and Handbook (Plastics Design Library)  
Hot Cars: A Collectors Ultimate Source for Hot Wheels, Matchbox and Johnny Lightning Hot Wheels Forty Years (Hot Wheels (Krause Publications))  
Hot Wheels Field Guide: Values and Identification (Warman's Field Guides Hot Wheels: Values & Identification)  
Hot Wheels Spectraflame: The Essential Guide (Hot Wheels (Krause Publications))  
Chinese Hot Pot Cookbook - Your Favorite Chinese Hot Pot Recipe Book: No Other Chinese Cookbook Can Compare

[Dmca](#)