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Hot melt pellet machine line The 3D Printing Industry (2013) 3D Printing 100—Safety How To Melt The MOST REFRACTORY METALS on Earth! Galileiss 4 - Create new formulation opportunities with hot melt extrusion Solubilization by Extrusion Formulation Selection and Process Development Lec 6 : Preparation of Synthetic Membrane, Phase Inversion Membranes Extruder Operation and Control - Paulson Training hot melt adhesive / glue / EVA/RESIN/woodworking / General use 3D Printing 102 - Extruders EVA hot melt glue stick production line (YAOAN plastic machinery co.,ltd) Process section of Coperion's twin screw extruder ZSK
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Buy Melt Extrusion: Materials, Technology and Drug Product Design (AAPS Advances in the Pharmaceutical Sciences Series) 2013 by Repka, Michael A., Langley, Nigel, DiNunzio, James (ISBN: 9781461484318) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Melt Extrusion: Materials, Technology and Drug Product ...

Melt Extrusion: Materials, Technology and Drug Product Design (AAPS Advances in the Pharmaceutical Sciences Series Book 9) eBook: Repka, Michael A., Langley, Nigel ...

Melt Extrusion: Materials, Technology and Drug Product ...

This volume provides readers with the basic principles and fundamentals of extrusion technology and a detailed description of the practical applications of a variety of extrusion processes, including various pharma grade extruders. In addition, the downstream production of films, pellets and tablets, for example, for oral and other delivery routes, are presented and discussed utilizing melt extrusion.

Melt Extrusion - Materials, Technology and Drug Product ...

Hot-melt extrusion is a proven pharmaceutical processing technology, enabling the formation of matrices and structures designed to control drug release. Controlled drug release formulations are...

Melt Extrusion: Materials, Technology and Drug Product Design

The melt extrusion process consists of melting the polymer pellets through a combination of applied heat and friction. This molten polymer is then forced under high pressure through a small orifice or, more typically, a " shower head " of orifices called a spinneret.

Melt Extrusion - an overview | ScienceDirect Topics

3.3. Solid dispersions with melt extrusion technology. Melt extrusion is a significant step forward to cover the technology related issues and makes the solid molecular dispersion approach a viable option. The viability of melt extrusion technology for the production of thin, flexible, acrylic films for topical drug delivery has been investigated by Aitken-Nichol et al. []. Lidocaine HCl was able to plasticize the acrylic polymer and the drug was completely dispersed at the molecular level ...

Melt extrusion: from process to drug delivery technology ...

This inclusive text describes hot melt extrusion for pharmaceutical applications, focusing on the materials used for the preparation of solid dispersions, fundamentals for preparing such systems and novel applications using extrusion technology. Highlighting viewpoints from the academic, excipient, equipment, product development and regulatory communities, this comprehensive text compiles input from industry thought leaders to illustrate strategies and technologies for applying hot melt ...

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Melt Extrusion: Materials, Technology and Drug Product ...

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This volume provides readers with the basic principles and fundamentals of extrusion technology and a detailed description of the practical applications of a variety of extrusion processes, including various pharma grade extruders. In addition, the downstream production of films, pellets and tablets, for example, for oral and other delivery routes, are presented and discussed utilizing melt extrusion. This book is the first of its kind that discusses extensively the well-developed science of extrusion technology as applied to pharmaceutical drug product development and manufacturing. By covering a wide range of relevant topics, the text brings together all technical information necessary to develop and market pharmaceutical dosage forms that meet current quality and regulatory requirements. As extrusion technology continues to be refined further, usage of extruder systems and the array of applications will continue to expand, but the core technologies will remain the same.

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 die 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 molding 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.

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This book is devoted to a nontraditional class of materials which are manufactured by the melt-blowing process. The text examines the structure and main properties of melt-blown materials as conditioned by peculiarities of overheated polymer melt spraying in oxidizing medium. Information is given about filtering mechanisms and the main types of polymer fibrous filtering materials.

This detailed volume addresses key issues and subtle nuances involved in developing hydrophilic matrix tablets as an approach to oral controlled release. It brings together information from more than five decades of research and development on hydrophilic matrix tablets and provides perspective on contemporary issues. Twelve comprehensive chapters explore a variety of topics including polymers (hypromellose, natural polysaccharides and polyethylene oxide) and their utilization in hydrophilic matrices, critical interactions impacting tablet performance, in vitro physical and imaging techniques, and microenvironmental pH control and mixed polymer approaches, among others. In one collective volume, Hydrophilic Matrix Tablets for Oral Controlled Release provides a single source of current knowledge, including sections of previously unpublished data. It is an important resource for industrial and academic scientists investigating and developing these oral controlled release formulations.

The first edition of Pharmaceutical Extrusion Technology, published in 2003, was deemed the seminal book on pharmaceutical extrusion. Now it is expanded and improved, just like the usage of extrusion has expanded, improved and evolved into an accepted manufacturing technology to continuously mix active pharmaceutical ingredients with excipients for a myriad of traditional and novel dosage forms. Pharmaceutical Extrusion Technology, Second Edition reflects how this has spawned numerous research activities, in addition to hardware and process advancements. It offers new authors, expanded chapters and contains all the extrusion related technical information necessary for the development, manufacturing, and marketing of pharmaceutical dosage forms.

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Pharmaceutical Extrusion Technology is the only resource to provide in-depth descriptions and analyses of the key parameters of extruders and extrusion processes. The book highlights the applicability of melt extrusion in pharmaceutical drug development and product manufacturing, including controlled release, dissolution rate and bioavailability enhancement, and granulation technology. It brings together the technical information necessary to develop and market pharmaceutical dosage forms that meet current quality and regulatory requirements and details extruder hardware and controls, process definition and troubleshooting of single and twin screw extrusion processes, and more.

This volume offers a comprehensive guide on the theory and practice of amorphous solid dispersions (ASD) for handling challenges associated with poorly soluble drugs. In twenty-three inclusive chapters, the book examines thermodynamics and kinetics of the amorphous state and amorphous solid dispersions, ASD technologies, excipients for stabilizing amorphous solid dispersions such as polymers, and ASD manufacturing technologies, including spray drying, hot melt extrusion, fluid bed layering and solvent-controlled micro-precipitation technology (MBP). Each technology is illustrated by specific case studies. In addition, dedicated sections cover analytical tools and technologies for characterization of amorphous solid dispersions, the prediction of long-term stability, and the development of suitable dissolution methods and regulatory aspects. The book also highlights future technologies on the horizon, such as supercritical fluid processing, mesoporous silica, KinetiSol®, and the use of non-salt-forming organic acids and amino acids for the stabilization of amorphous systems. Amorphous Solid Dispersions: Theory and Practice is a valuable reference to pharmaceutical scientists interested in developing bioavailable and therapeutically effective formulations of poorly soluble molecules in order to advance these technologies and develop better medicines for the future.

The second edition of Extrusion is designed to aid operators, engineers, and managers in extrusion processing in quickly answering practical day-to-day questions. The first part of the book provides the fundamental principles, for operators and engineers, of polymeric materials extrusion processing in single and twin screw extruders. The next section covers advanced topics including troubleshooting, auxiliary equipment, and coextrusion for operators, engineers, and managers. The final part provides applications case studies in key areas for engineers such as compounding, blown film, extrusion blow molding, coating, foam, and reprocessing. This practical guide to extrusion brings together both equipment and materials processing aspects. It covers basic and advanced topics, for reference and training, in thermoplastics processing in the extruder. Detailed reference data are provided on such important operating conditions as temperatures, start-up procedures, shear rates, pressure drops, and safety. A practical guide to the selection, design and optimization of extrusion processes and equipment Designed to improve production efficiency and product quality Focuses on practical fault analysis and troubleshooting techniques

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