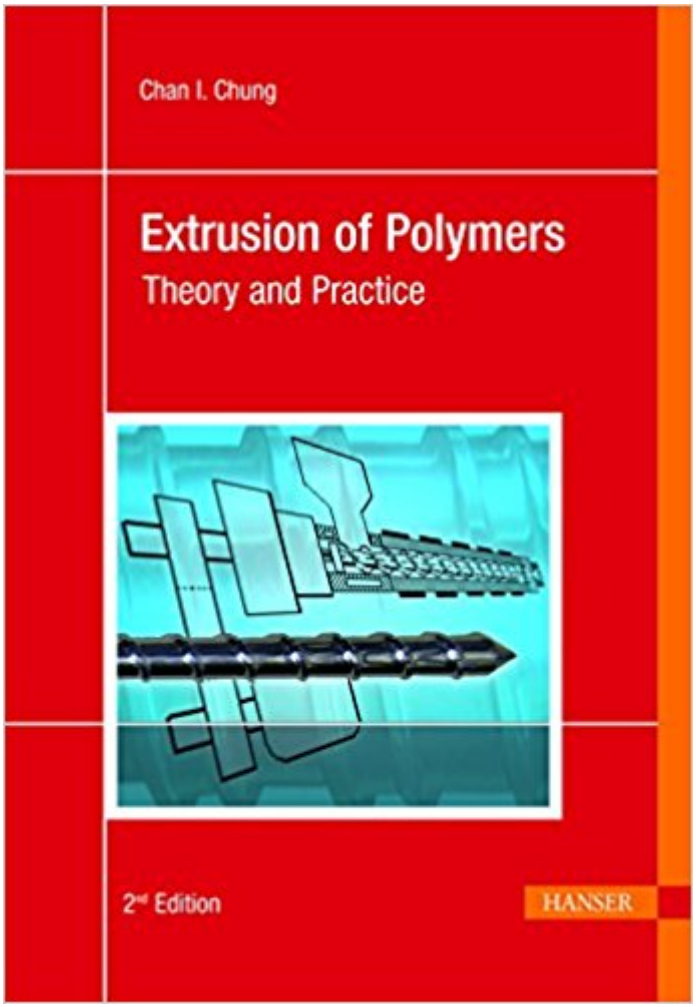
Extrusion Of Polymers 2E: Theory And Practice



Synopsis

Single-screw extrusion technology is presented together with the relevant polymer fundamentals, with an emphasis on screw design. The book provides an in-depth tutorial for the conceptual understanding and an analytical part with mathematical models. Practical applications of the mathematical models are illustrated by examples. A brief description of twin-screw extrusion technology is also presented. Contents: Physical Description of Single-Screw Extrusion. Fundamentals of Polymers. Theories of Single- Screw Extrusion. Screw Design, High-Performance Screws, and Scale-Up. Gear Pumps, Static Mixer, and Dynamic Mixer. Physical Description of Twin-Screw Extruders.

Book Information

Hardcover: 483 pages

Publisher: Hanser; 2 edition (June 1, 2010)

Language: English

ISBN-10: 1569904596

ISBN-13: 978-1569904596

Product Dimensions: 6.8 x 1 x 9.6 inches

Shipping Weight: 2.3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,062,612 in Books (See Top 100 in Books) #75 inÃ Â Books > Engineering & Transportation > Engineering > Chemical > Plastics #286 inÃ Â Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles #664 inÃ Â Books > Textbooks > Engineering > Chemical Engineering

Customer Reviews

This is a very unique and interesting book on screw exrusion of polymers, and contains many suggestive observations not only on melting but also on solid conveying, metering etc. of extruders.Chung model, different from other models, has been developed based on experimental results by a unique simulative apparatus called "screw simulator" and theoretical studies of them. There were discussions about the adequacy of applying the knowledge from the screw simulator to real single screw extruders. Chung persevered in his research, and published his achievements in book form.

Extrusion of Polymers 2E: Theory and Practice Biodegradable Polymers and Plastics (World Conference on Biodegradable Polymers and Plastics (7th) Plastics Extrusion Technology Handbook Understanding Extrusion with CDROM (Hanser Understanding Books) Polymer Extrusion Hot-Melt Extrusion: Pharmaceutical Applications Environmental Justice: Legal Theory and Practice, 3d: Legal Theory and Practice (Environmental Law Institute) ICD-10-CM/PCS Coding: Theory and Practice, 2017 Edition - E-Book (Icd-10-Cm-Pcs Coding Theory and Practice) Photon Emission from Biological Systems-Theory and Practice: Theory and Practice : Proceedings of the 1st International Symposium, Wrocaw, Poland, January 24-26 1986 Light Scattering, Size Exclusion Chromatography and Asymmetric Flow Field Flow Fractionation: Powerful Tools for the Characterization of Polymers, Proteins and Nanoparticles Compounding Materials for the Polymer Industries: A Concise Guide to Polymers, Rubbers, Adhesives, and Coatings Self-Healing Polymers and Polymer Composites Compositional and Failure Analysis of Polymers: A Practical Approach Materials Processing: A Unified Approach to Processing of Metals, Ceramics and Polymers Polymers: Chemistry and Physics of Modern Materials, Third Edition Wear of Polymers and Composites Organic Electronic Materials: Conjugated Polymers and Low Molecular Weight Organic Solids (Springer Series in Materials Science) Biodegradable Polymers as Drug Delivery Systems (Drugs and the Pharmaceutical Sciences) The Physics of Polymers: Concepts for Understanding Their Structures and Behavior Polymers: Chemistry and Physics of Modern Materials