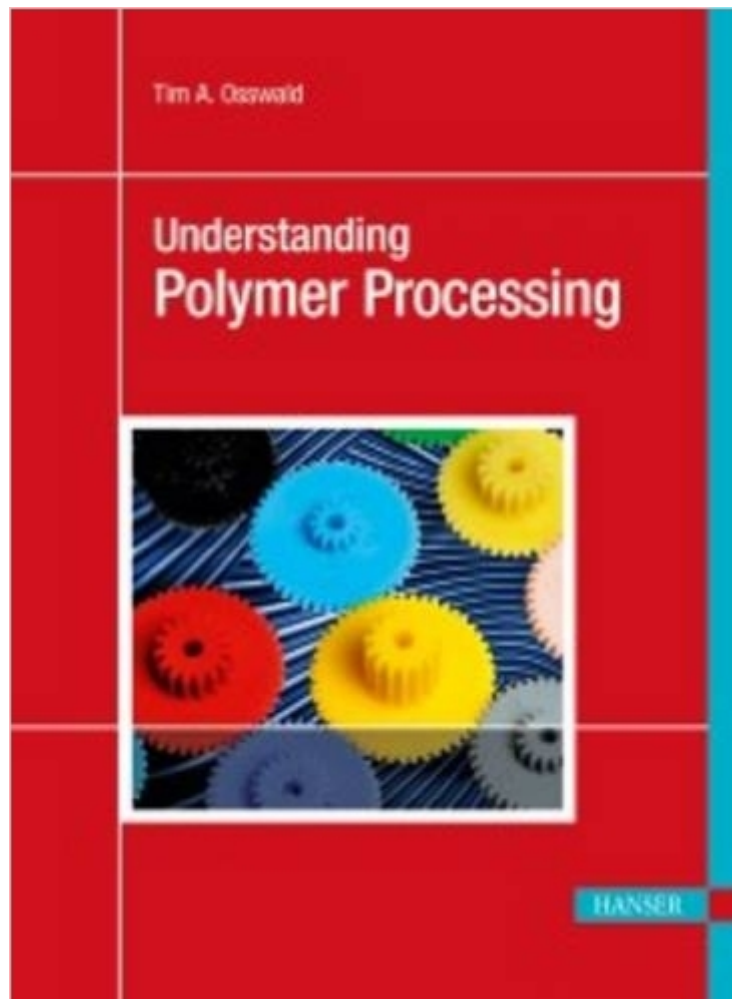


The book was found

Understanding Polymer Processing: Processes And Governing Equations



Synopsis

This book provides the background needed to understand not only the wide field of polymer processing but also the emerging technologies associated with the plastics industry in the 21st century. The book combines practical engineering concepts with modeling of realistic polymer processes. It is divided into three sections that provide the reader sufficient knowledge of polymer materials, polymer processing, and modeling. Understanding Polymer Processing is intended for the person who is entering the plastics manufacturing industry and as a textbook for students taking an introductory course in polymer processing. This three-part book also serves as a guide to the practicing engineer when choosing a process, determining important parameters and factors during the early stages of process design, and when optimizing such a process. Practical examples illustrating basic concepts are presented throughout the book. Contents: Part I Polymeric Materials. This section gives a general introduction to polymers, including mechanical behavior of polymers and melt rheology. Part II Polymer Processing. The major polymer processes are introduced in this section, including extrusion, mixing, injection molding, thermoforming, blow molding, film blowing, and many others. Part III Modeling. This last section delivers the tools to allow the engineer to solve back-of-the-envelope polymer processing models. It includes dimensional analysis and scaling, transport phenomena in polymer processing, and modeling polymer processes.

Book Information

Perfect Paperback: 286 pages

Publisher: Hanser (September 1, 2010)

Language: English

ISBN-10: 1569904723

ISBN-13: 978-1569904725

Product Dimensions: 7.2 x 0.9 x 9.5 inches

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

Average Customer Review: 4.5 out of 5 stars [See all reviews](#) (2 customer reviews)

Best Sellers Rank: #848,857 in Books (See Top 100 in Books) #61 in [Books > Engineering & Transportation > Engineering > Chemical > Plastics](#) #63 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Extraction & Processing](#) #178 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles](#)

Customer Reviews

Delivered as promised and the book matched its stated description.

Needed it for a class. It is a very good overview of polymer processing.

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

Understanding Polymer Processing: Processes and Governing Equations Student Solutions Manual
for Differential Equations: Computing and Modeling and Differential Equations and Boundary Value
Problems: Computing and Modeling Transformations Of Coordinates, Vectors, Matrices And
Tensors Part I: LAGRANGE'S EQUATIONS, HAMILTON'S EQUATIONS, SPECIAL THEORY OF
RELATIVITY AND CALCULUS ... Mathematics From 0 And 1 Book 16) Differential Equations and
Boundary Value Problems: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis
Differential Equations) Algebra Essentials Practice Workbook with Answers: Linear & Quadratic
Equations, Cross Multiplying, and Systems of Equations (Improve Your Math Fluency Series)
Differential Equations: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential
Equations) Applied Partial Differential Equations with Fourier Series and Boundary Value Problems
(5th Edition) (Featured Titles for Partial Differential Equations) Fundamentals of Differential
Equations and Boundary Value Problems (6th Edition) (Featured Titles for Differential Equations)
Fundamentals of Differential Equations (8th Edition) (Featured Titles for Differential Equations)
Functional Polymer Coatings: Principles, Methods, and Applications (Wiley Series on Polymer
Engineering and Technology) Understanding Bergson, Understanding Modernism (Understanding
Philosophy, Understanding Modernism) Polymer clay: All the basic and advanced techniques you
need to create with polymer clay. (Volume 1) Crackle Techniques: The Ultimate Guide for Polymer
Clay Art and Craft (The Ultimate Guides for Polymer Clay Book 1) Methods of X-ray and Neutron
Scattering in Polymer Science (Topics in Polymer Science) The Encyclopedia of Polymer Clay
Techniques: A Comprehensive Directory of Polymer Clay Techniques Covering a Panoramic Range
of Exciting Applications The Big Book of Polymer Blends: Polymer Clay Blends. Made Simple. In
One Place. SCULPTING THE EASY WAY IN POLYMER CLAY FOR BEGINNERS 2: How to sculpt
a fairy head in Polymer clay (Sculpting the easy way for beginners) Polymer Synthesis, Second
Edition: Volume 1 (Polymer Syntheses) Polymer Processing: Modeling and Simulation Polymer Melt
Processing: Foundations in Fluid Mechanics and Heat Transfer (Cambridge Series in Chemical
Engineering)

[Dmca](#)