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Polymer processing aids are typically used to reduce melt fracture of polymers, especially of linear polyethylene. Melt fracture is a type of flow instability that begins as a roughening of the surface (shark skin) and at higher output can lead to severe distortion of the polymer.

Processing techniques are critical to the performance of polymer products which are used in a wide range of industries. Advances in polymer processing: From macro- to nano-scales reviews the latest advances in polymer processing, techniques and materials. Part one reviews the fundamentals of polymer processing with chapters on rheology, materials and polymer extrusion. Part two then discusses advances in moulding technology with chapters on such topics as compression, rotational and blow moulding of polymers. Chapters in Part three review

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alternative processing technologies such as calendaring and coating, foam processing and radiation processing of polymers. Part four discusses micro and nano-technologies with coverage of themes such as processing of macro, micro and nanocomposites and processing of carbon nanotubes. The final section of the book addresses post-processing technologies with chapters on online monitoring and computer modelling as well as joining, machining, finishing and decorating of polymers. With distinguished editors and team of international contributors, *Advances in polymer processing: From macro- to nano- scales* is an invaluable reference for engineers and academics concerned with polymer processing. Reviews the latest advances in polymer processing, techniques and materials analysing new challenges and opportunities Discusses the fundamentals of polymer processing considering the compounding and mixing of polymers as well as extrusion Assesses alternative processing technologies including calendaring and coating and thermoforming of polymers

Fundamental concepts coupled with practical, step-by-step guidance With its emphasis on core principles, this text equips readers with the skills and knowledge to design the many processes needed to safely and successfully manufacture thermoplastic parts. The first half of the text sets forth the general theory and concepts underlying

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polymer processing, such as the viscoelastic response of polymeric fluids and diffusion and mass transfer. Next, the text explores specific practical aspects of polymer processing, including mixing, extrusion dies, and post-die processing. By addressing a broad range of design issues and methods, the authors demonstrate how to solve most common processing problems. This Second Edition of the highly acclaimed Polymer Processing has been thoroughly updated to reflect current polymer processing issues and practices. New areas of coverage include: Micro-injection molding to produce objects weighing a fraction of a gram, such as miniature gears and biomedical devices New chapter dedicated to the recycling of thermoplastics and the processing of renewable polymers Life-cycle assessment, a systematic method for determining whether recycling is appropriate and which form of recycling is optimal Rheology of polymers containing fibers Chapters feature problem sets, enabling readers to assess and reinforce their knowledge as they progress through the text. There are also special design problems throughout the text that reflect real-world polymer processing issues. A companion website features numerical subroutines as well as guidance for using MATLAB®, IMSL®, and Excel to solve the sample problems from the text. By providing both underlying theory and practical step-by-step guidance, Polymer Processing is recommended for students in

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chemical, mechanical, materials, and polymer engineering.

Exploring the chemistry of synthesis, mechanisms of polymerization, reaction engineering of step-growth and chain-growth polymerization, polymer characterization, thermodynamics and structural, mechanical, thermal and transport behavior of polymers as melts, solutions and solids, Fundamentals of Polymer Engineering, Third Edition covers essential concepts and breakthroughs in reactor design and polymer production and processing. It contains modern theories and real-world examples for a clear understanding of polymer function and development. This fully updated edition addresses new materials, applications, processing techniques, and interpretations of data in the field of polymer science. It discusses the conversion of biomass and coal to plastics and fuels, the use of porous polymers and membranes for water purification, and the use of polymeric membranes in fuel cells. Recent developments are brought to light in detail, and there are new sections on the improvement of barrier properties of polymers, constitutive equations for polymer melts, additive manufacturing and polymer recycling. This textbook is aimed at senior undergraduate students and first year graduate students in polymer engineering and science courses, as well as professional engineers, scientists,

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and chemists. Examples and problems are included at the end of each chapter for concept reinforcement.

Experts in rheology and polymer processing present up-to-date, fundamental and applied information on the rheological properties of polymers, in particular those relevant to processing, contributing to the physical understanding and the mathematical modelling of polymer processing sequences. Basic concepts of non-Newtonian fluid mechanics, micro-rheological modelling and constitutive modelling are reviewed, and rheological measurements are described. Topics with practical relevance are debated, such as linear viscoelasticity, converging and diverging flows, and the rheology of multiphase systems. Approximation methods are discussed for the computer modelling of polymer melt flow. Subsequently, polymer processing technologies are studied from both simulation and engineering perspectives. Mixing, crystallization and reactive processing aspects are also included. Audience: An integrated and complete view of polymer processing and rheology, important to institutions and individuals engaged in the characterisation, testing, compounding, modification and processing of polymeric materials. Can also support academic polymer processing engineering programs.

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Nozzles - 7.3 Flow and Heat Transfer in Moulds - Appendix A. Finite Element Analysis of Narrow Channel Flow - Appendix B. Solution of the Screw Channel Developing Melt Flow Equations - Appendix C. Solution of the Melting Model Equations - Further Reading - Index - Preface - The increasing use of synthetic polymers in preference to metals and other engineering materials for a wide range of applications has been accompanied by the development and improvement of processes for converting them into useful products. Indeed, it is often the comparative ease and cheapness with which polymeric materials can be processed that make them attractive choices. Because of the relatively complex behaviour of the materials, polymer processes may appear to be difficult to understand and analyze quantitatively. The purposes of this book are to introduce the reader briefly to the main methods of processing thermoplastic polymers, and to examine the principles of flow and heat transfer in some of the more industrially important of these processes. Much attention is devoted to the two most widely used methods - screw extrusion and injection moulding. Quantitative analyses based on mathematical models of the processes are developed in order to aid the understanding of them, and to improve both the performance and design of processing equipment. In addition to algebraic formulae, some worked examples are included to illustrate the use of the results obtained.

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In cases where analytical solutions are not possible, methods of numerical solution using digital computers are discussed in some detail, and typical results presented.

"Providing new students and practitioners with an easy-to-understand introduction to the theory and practice an often complicated subject, Introduction to Polymer Rheology incorporates worked problems and problems with appended answers to provide opportunities for review and further learning of more advanced concepts. By limiting the use of mathematics within an approachable format, this introductory overview ensures practicing scientists and engineers understand the concepts underlying the flow behavior of polymer melts, solutions, and suspensions, and are able to interpret experimental data correctly and provide additional insight on a process"--

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current industry practices and future directions. All the chapters have been revised and updated, and four new chapters have been added to introduce the latest developments. Readers familiar with the First Edition will discover a host of new material, including:

- * Blend and alloy microstructuring
- * Twin screw-based melting and chaotic mixing mechanisms
- * Reactive processing
- * Devolatilization--theory, mechanisms, and industrial practice
- * Compounding--theory and industrial practice
- * The increasingly important role of computational fluid mechanics
- * A systematic approach to machine configuration design

The Second Edition expands on the unique approach that distinguishes it from comparative texts. Rather than focus on specific processing methods, the authors assert that polymers have a similar experience in any processing machine and that these experiences can be described by a set of elementary processing steps that prepare the polymer for any of the shaping methods. On the other hand, the authors do emphasize the unique features of particular polymer processing methods and machines, including the particular elementary step and shaping mechanisms and geometrical solutions. Replete with problem sets and a solutions manual for instructors, this textbook is recommended for undergraduate and graduate students in chemical engineering and polymer and materials engineering and science. It will also prove invaluable for

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