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"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. It 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.

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This book provides a practical understanding of extrusion in a way useful to readers without an engineering degree as well as to those new to the field. It is written primarily for extruder operators, supervisors, technical service personnel, and process engineers. Designed for on-the-job use, it guides the reader step by step through material issues, machinery, processing, and troubleshooting.

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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. It combines practical engineering concepts with modeling of realistic polymer processes. Divided into three sections, it provides the reader with a solid knowledge base in 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. It 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. New in the second edition is a chapter on additive manufacturing, together with associated examples, as well as improvements and corrections throughout the book. With the purchase of this book, you also receive a free personal access code to download the eBook.

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. It combines practical engineering concepts with modeling of realistic polymer processes. Divided into three sections, it provides the reader with a solid knowledge base in 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. It 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. New in the second edition is a chapter on additive manufacturing, together with associated examples, as well as improvements and corrections throughout the book. Contents: o Part I - Polymeric Materials This section gives a general introduction to polymers, including mechanical behavior of polymers and melt rheology o 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. o 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

This three-part textbook is written for a two-semester polymer processing series in mechanical or chemical engineering. The first and second part are designed for a senior- to grad-level course introducing polymer processing, and the third part is for a graduate course on simulation in polymer processing. Throughout the book, many applications are presented in form of examples and illustrations. These will also serve the practicing engineer as a guide when determining important parameters and factors during the design process or when optimizing a process.

Engineering of polymers is not an easy exercise: with evolving technology, it often involves complex concepts and processes. This book is intended to provide the theoretical essentials: understanding of processes, a basis for the use of design software, and much more. The necessary physical concepts such as continuum mechanics, rheological behavior and measurement methods, and thermal science with its application to heating-cooling problems and implications for flow behavior are analyzed in detail. This knowledge is then applied to key processing methods, including single-screw extrusion and extrusion die flow, twin-screw extrusion and its applications, injection molding, calendering, and processes involving stretching. With many exercises with solutions offered throughout the book to reinforce the concepts presented, and extensive illustrations, this is an essential guide for mastering the art of plastics processing. Practical and didactic, Polymer Processing: Principles and Modeling is intended for engineers and technicians of the profession, as well as for advanced students in Polymer Science and Plastics Engineering.

"Rheology in Polymer Processing" introduces the fundamentals of rheology and rheometry as the basis for modeling and computer-aided design in plastics processing. The logically structured content enables the reader to intelligently use the tools of computer-aided design and modeling of plastics processing, with correct interpretation of the results. The book presents difficult and complex issues of rheology and modeling in an accessible way, with particular emphasis on the practical engineering aspects. The software described in the book allows modeling all the important problems of plastics processing. Particular attention is paid to the extrusion process, which is fundamentally important as a processing technology in mass manufacture of plastic parts, and the basis of compounding processes (blending, filling, granulation, and reinforcement). This book is aimed equally at engineers, researchers, and scientists, as well as intermediate students, for whom it will serve as an ideal course book.

Rheology unites the seemingly unrelated fields of plasticity and non-Newtonian fluids by recognizing that both these types of materials are unable to support a shear stress in static equilibrium. In this sense, a plastic solid is a fluid. Granular rheology refers to the continuum mechanical description of granular materials. In this book, rheology--the study of the deformation and flow of matter--is treated primarily in the context of the stresses generated during the flow of complex materials such as polymers, colloids, foams, and gels. A rapidly growing and industrially important field, it plays a significant role in polymer processing, food processing, coating and printing, and many other manufacturing processes.

Based on lecture notes from a five-week polymer processing laboratory course taught at the University of Wisconsin-Madison, this text provides background on polymer processing for engineering students and practicing engineers.

Rheology is applied extensively in polymer, chemical, food processing, and related industries. This book combines the basic concepts and applications by presenting a balanced overview of the principles. With simplified analysis of complex problems, the textbook format provides easy understanding for both students and practicing professionals. There is no competing book with such a wide scope, including unique topics such as diffusion, flows about particles, and liquid mixing. This second edition is abundantly updated throughout. Highlights include elongational flow measurements, POM-POM modeling, diffusion and rheology of polymer nanocomposites, new results based on CFD simulations, and much more.