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This third edition has been written to thoroughly update the coverage of injection molding in the World of Plastics. There have been changes, including extensive additions, to over 50% of the content of the second edition. Many examples are provided of processing different plastics and relating the results to critical factors, which range from product design to meeting performance requirements to reducing costs to zero-defect targets. Changes have not been made that concern what is basic to injection molding. However, more basic information has been added concerning present and future developments, resulting in the book being more useful for a long time to come. Detailed explanations and interpretation of individual subjects (more than

1500) are provided, using a total of 914 figures and 209 tables. Throughout the book there is extensive information on problems and solutions as well as extensive cross referencing on its many different subjects. This book represents the ENCYCLOPEDIA on IM, as is evident from its extensive and detailed text that follows from its lengthy Table of CONTENTS and INDEX with over 5200 entries. The worldwide industry encompasses many hundreds of useful plastic-related computer programs. This book lists these programs (ranging from operational training to product design to molding to marketing) and explains them briefly, but no program or series of programs can provide the details obtained and the extent of information contained in this single sourcebook.

Metal injection molding combines the most useful characteristics of powder metallurgy and plastic injection molding to facilitate the production of small, complex-shaped metal components with outstanding mechanical properties. Handbook of Metal Injection Molding, Second Edition provides an authoritative guide to this important technology and its applications. Building upon the success of the first edition, this new edition includes the latest developments in the field and expands upon specific processing technologies. Part one discusses the fundamentals of the metal injection molding process with chapters on topics such as component design, important powder characteristics, compound manufacture, tooling design, molding optimization, debinding, and sintering. Part two provides a detailed review of quality issues, including feedstock characterisation, modeling and simulation, methods to qualify a MIM process, common defects and carbon content control. Special metal injection molding processes are the focus of part three, which provides comprehensive coverage of micro components, two material/two color structures, and porous metal techniques, as well as automation of the MIM process and metal injection molding of large components. Finally, part four explores metal injection molding of particular materials, and has been expanded to include super alloys, carbon steels, precious metals, and aluminum. With its distinguished editor and expert team of international contributors, the Handbook of Metal Injection Molding is an essential guide for all those involved in the high-volume manufacture of small precision parts, across a wide range of high-tech industries such as microelectronics, biomedical and aerospace engineering. Provides an authoritative guide to metal injection molding and its applications Discusses the fundamentals of the metal injection molding processes and covers topics such as component design, important powder characteristics, compound manufacture, tooling design, molding optimization, debinding, and sintering Comprehensively examines quality issues such as feedstock characterization, modeling and simulation, common defects and carbon content control

Economic success in the plastics processing industry depends on the

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quality, precision, and reliability of its most common tool: the injection mold. Consequently, misjudgments in design and mistakes in the manufacturing of molds can result in grave consequences.

The first book to shed light on the critical role the melt delivery system plays in successful injection molding has received a major update in its 3rd edition. This successful book will give you an immediate leg up by reducing mold commissioning times, increasing productivity, improving customer satisfaction, and achieving quality goals such as Six Sigma. How do you determine the optimum design of your runners and gates; what type of runner system (hot or cold variations) do you use for a specific application; how do you identify molding problems generated by the gate and runner vs. those stemming from other molding issues; what should you consider when selecting a gating location? The "Runner and Gate Design Handbook" will give you the means to get to the bottom of these issues as well as provide specific guidelines for process optimization and troubleshooting. Highlights among the numerous new updates include coverage and analyses of critical shear induced melt variations that are developed in the runners of all injection molds, expanded content on hot runners, and a new subchapter on injection molding process development.

The IM Troubleshooting Guide was originally prepared in 1996 as a 48 page convenient pocket sized resource for use in Injection Molding. This information is most useful by personnel who work in the injection molding field including press operators, technicians, engineers, etc. This 3rd ED is at 104 pages and includes selected extra pages from other APEBOOKS that are helpful in process set up and troubleshooting. This book includes many useful definitions and tips for troubleshooting molding problems -- both process and tooling related. The book was written based on many years of process engineering. The solutions for correcting process problems are listed in the best order to solve the problem based on factors such as ease & timeliness to perform versus cost to implement and always considering effectiveness to solve problem. It is also useful to identify a common set of definitions for each department to use when discussing these common molding defects. Tips are often provided as to which defects may be process correctable versus those requiring product or mold changes. An introduction to DOE and dimensional nominalization is made, but discussed in greater detail in some of the other booklets written by this author for injection molding ... these are listed later in this book ... a total of six books have been written for injection molding.

The Mold-Making Handbook is an essential resource for the plastics industry, providing all of the fundamental engineering aspects of mold design, construction, and manufacturing. Written by industry experts, this book captures the current state of the technique for all major processing methods. This third edition has been completely updated and includes new chapters on micro injection molds, rubber industry molds,

and rapid prototyping. Separate sections describe the tool materials and various manufacturing and processing methods. This handbook appeals to a broad range of plastics professionals--from the beginner who is looking for an introduction to a key area of plastics processing to the specialist who needs a quick reading into related technical areas, which can result in ideas for their own work. The Mold-Making Handbook is extremely useful for engineers, designers, processors, technical sales reps, and students interested in all aspects of mold construction.

Here is a book that brings the art of plastic injection molding to the home shop level. Working with plastics can be a fun and profitable hobby. If you have ever wanted to produce custom made plastic parts or just want to know how it's done then this book is for you. Included are complete step by step instructions on how to build a small inexpensive table top injection molding machine capable of injecting up to 1/2 ounce of plastic into a mold. Sources for plastic will be those things normally thrown away. Stuff like plastic milk jugs, soda pop bottles, plastic oil cans etc. You will learn the basic principles of injection molding and how to design and make your own molds. Begin by making a simple mold to test the machine. Then a mold for a plastic knob that will be used on the machine. Progress to a mold for a small plastic container with a snap lid. It won't be long before you will be creating new products of your own design. I'll even show you how to cast replacements for broken or missing plastic parts. Just think of the possibilities. And the finished items you make will turn out so nice and look so professional that it will be hard to believe you made them yourself. Construction is simple and straight forward, but it will require basic metal working knowledge and access to a metal lathe and a drill press along with other hand and power tools associated with metal working and machine work in general.

Stretch Blow Molding, Third Edition, provides the latest on the blow molding process used to produce bottles of the strength required for carbonated drinks. In this updated handbook, Ottmar Brandau introduces the technology of stretch blow molding, explores practical aspects of designing and running a production line, and looks at practical issues for quality control and troubleshooting. As an experienced engineer, manager, and consultant, Brandau's focus is on optimizing the production process, improving quality, and reducing cycle time. In this new edition, the author has thoroughly reviewed the content of the book, providing updates on new developments in stretch blow molding, including neck sizes, new equipment and processes, and the economics of the process. The book is a thoroughly practical handbook which provides engineers and managers with the toolkit to improve production and engineering aspects in their own businesses, allowing them to save money, increase output, and improve competitiveness by adopting new technologies. Provides knowledge and understanding of the latest technological and best practice developments in stretch blow molding Includes money saving, practical strategies to optimize the

production process, improve quality, and reduce cycle times Provides a guide to the training of operators, as well as tactics on how to troubleshoot when products are faulty, productivity is low, or machinery is not operating as expected

This book covers fundamental principles and numerical methods relevant to the modeling of the injection molding process. As injection molding processing is related to rheology, mechanical and chemical engineering, polymer science and computational methods, and is a rapidly growing field, the book provides a multidisciplinary and comprehensive introduction to the subjects required for an understanding of the complex process. It addresses the up-to-date status of fundamental understanding and simulation technologies, without losing sight of still useful classical approaches. The main chapters of the book are devoted to the currently active fields of flow-induced crystallization and orientation evolution of fiber suspensions, respectively, followed by detailed discussion of their effects on mechanical property, shrinkage and warpage of injection-molded products. The level of the proposed book will be suitable for interested scientists, R&D engineers, application engineers, and graduate students in engineering.

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