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Runner and Gating Design Handbook: Tools for Successful Injection Molding, Third Edition presents successfully used runner and gating design techniques and their various materials and molding applications.

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Buy Runner and Gating Design Handbook: Tools for Successful Injection Molding 2nd Revised edition by Beaumont, John Philip (ISBN: 9783446407657) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Sample Pages Runner and Gating Design Handbook

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Runner & Gating Design Strategies is based on the best-selling Runner & Gating Design Handbook by AIM's founder John P. Beaumont. This live, interactive course is designed to give students an overview of design considerations for the melt delivery system of injection molds. VIEW UPCOMING COURSE DATES What will I learn?

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Runner-And-Gating-Design-Handbook: Tools For Successful...

Runner and Gating Design Handbook by John P. Beaumont, 9781569905906, available at Book Depository with free delivery worldwide.

For the first time, both the art and the science of designing runners and gates are presented in a concise format. Tried and true runner and gating design techniques successfully used with various materials and molding applications are described together with cutting edge new technologies. The book will help readers determine when to use what type of runner system and how to isolate molding problems generated by the gate and runner vs. other molding issues. Much emphasis is placed on the critical features in a hot runner design and how to determine what type of design is best for a specific application. Finally, readers will be able to separate the sales hype from reality when dealing with hot runner suppliers.

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.

This handbook was written for the injection molding product designer who has a limited knowledge of engineering polymers. It is a guide for the designer to decide which resin and design geometries to use for the design of plastic parts. It can also offer knowledgeable advice for resin and machine selection and processing parameters. Manufacturer and end user satisfaction is the ultimate goal.

This book simultaneously addresses the subjects of successful molded product development and the practical application of injection molding simulation in this process. A strong emphasis is placed on establishing a clear understanding of the complex interaction between materials, process, mold design and part design, and how injection simulation can be used to evaluate this interaction.

This book describes an effective framework for setting the right process parameters and new mold design to reduce the current plastic defects in injection molding. It presents a new approach for the optimization of injection molding process via (i) a new mold runner design which leads to 20 percent reduction in scrap rate, 2.5 percent reduction in manufacturing time, and easier ejection of injected part, (ii) a new mold gate design which leads to less plastic defects; and (iii) the introduction of a number of promising alternatives with high moldability indices. Besides presenting important developments of relevance academic research, the book also includes useful information for people working in the injection molding industry, especially in the green manufacturing field.

This book provides a structured methodology and scientific basis for engineering injection molds. The topics are presented in a top-down manner, beginning with introductory definitions and the big picture before proceeding to layout and detailed design of molds. The book provides very pragmatic analysis with worked examples that can be readily adapted to real-world product design applications. It will help students and practitioners to understand the inner workings of injection molds and encourage them to think outside the box in developing innovative and highly functional mold designs. This new edition has been extensively revised with new content that includes more than 80 new and revised figures and tables, coverage of development strategy, 3D printing, in-mold sensors, and practical worksheets, as well as a completely new chapter on the mold commissioning process, part approval, and mold maintenance.

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.

The Injection Molding Handbook provides engineers, professionals and other involved in this important industry sector with a thorough up-to-date overview of injection molding processing equipment and techniques, including the basic fundamental information on chemistry, physics, material science and process engineering. It covers all components of the injection molding machine and the various process steps. Topics directly affecting injection molding, such as material selection, process control, simulation, design and troubleshooting complete this reference book for the injection molder. The updated second edition handbook presents a well-rounded overview of the underlying theory governing the various injection molding processes without losing its practical flavor.

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.

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