

David O Kazmer Injection Mold Design Engineering

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 definitive step-by step resource for qualitative and ethnographic research *Qualitative Research Methods: Collecting Evidence, Crafting Analysis, Communicating Impact* is a comprehensive guide on both the theoretical foundations and practical application of qualitative methodology. Adopting a phronetic-iterative approach, this foundational book leads readers through the chronological progression of a qualitative research project, from designing a study and collecting and analyzing data to developing theories and effectively communicating the results—allowing readers to employ qualitative methods in their projects as they follow each chapter. Coverage of topics such as qualitative theories, ethics, sampling, interview techniques, qualitative quality, and advice on practical fieldwork provides clear and concise guidance on how to design and conduct sound research projects. Easy-to-follow instructions on iterative qualitative data analysis explain how to organize, code, interpret, make claims, and build theory. Throughout, the author offers her own backstage stories about fieldwork, analysis, drafting, writing, and publishing, revealing the emotional and humorous aspects of practicing qualitative methods. Now in its second edition, this thorough and informative text includes new and expanded sections on topics including post-qualitative research, phenomenology, textual analysis and cultural studies, gaining access to elite and difficult to access populations, on persuasive writing, novel interviewing approaches, and more. Numerous examples, case studies, activities, and discussion questions have been updated to reflect current research and ensure contemporary relevance. Written in an engaging and accessible narrative style by an acclaimed scholar and researcher in the field Offers new and updated examples of coding and qualitative analysis, full-color photos and illustrations, and a companion instructor website Synthesizes the most up-to-date multidisciplinary literature on qualitative research methods including seven main approaches to qualitative inquiry: grounded theory, case study, ethnography, phenomenology, narrative and autoethnography, participatory action research, and arts-based research Presents innovative qualitative data collection methods and modern representation strategies, such as virtual ethnography, photo-voice, and mobile interviewing *Qualitative Research Methods: Collecting Evidence, Crafting Analysis, Communicating Impact* is an ideal resource for undergraduate and graduate students, instructors, and faculty across multiple disciplines including the social sciences, healthcare, education, management, and the

humanities, and for practitioners seeking expert guidance on practical qualitative methods.

Non-Chemical Weed Control is the first book to present an overview of plant crop protection against non-food plants using non-chemical means. Plants growing wild—particularly unwanted plants found in cultivated ground to the exclusion of the desired crop—have been treated with herbicides and chemical treatments in the past. As concern over environmental, food and consumer safety increases, research has turned to alternatives, including the use of cover crops, thermal treatments and biotechnology to reduce and eliminate unwanted plants. This book provides insight into existing and emerging alternative crop protection methods and includes lessons learned from past methodologies. As crop production resources decline while consumer concerns over safety increase, the effective control of weeds is imperative to insure the maximum possible levels of soil, sunlight and nutrients reach the crop plants. Allows reader to identify the most appropriate solution based on their individual use or case Provides researchers, students and growers with current concepts regarding the use of modern, environment-friendly weed control techniques Presents methods of weed management—an important part of integrated weed management in the future Exploits the knowledge gained from past sustainable weed management efforts

"Plastics manufacturing is a highly interdisciplinary endeavor requiring knowledge related to materials science, physics, engineering, and management. This book was written to educate and support plastics processing engineers, but is also highly useful to others involved with plastics manufacturing who are performing process development, research, and even machinery design"--Provided by publisher.

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.

For nearly 50 years, pest control was mostly based on broad-spectrum conventional insecticides such as organochlorines, organophosphates, carbamates and pyrethroids. However, the severe adverse effects of pesticides on the environment, problems of resistance reaching crisis proportions and public protests led to stricter regulations and legislation aimed at reducing their use. Ways to reduce the use of synthetic pesticides in plant protection and to use more alternative and novel methods for pest control or biorational control are the challenges of pest control for the twenty-first century. The term biorational (biological + rational) pesticides can be defined as the use of specific and selective chemicals, often with a unique modes of action, that are compatible with natural enemies and the environment, with minimal effect on n- target organisms. Biorational control is based on a diversity of

chemical, biological and physical approaches for controlling insect pests which results in minimum risk to man and the environment.

This easy-to-understand guide provides the necessary information to implement a scientific molding program. It is a hands-on reference for people on the molding floor, including those previously lacking theoretical background or formal education. The book covers how the injection molding machine prepares the plastic and understanding of plastic flow. The functions of the main machine components are explained and understanding of correct procedures and testing is developed. Each step of the process is clearly explained in a step-by-step manner, and simple examples of important calculations are provided. The practical approach is augmented by useful guides for troubleshooting and machine set-up. An Excel spreadsheet with a process test and a machine performance test is available as bonus material. Contents 1. Injection Unit: Screw 2. Injection Unit: Barrel 3. Clamping Unit 4. Ejectors/Controllers, Human Machine Interface (HMI) 5. Machine Performance Testing 6. Process Development Test 7. Plastic Temperature 8. Plastic Flow 9. Plastic Pressure (Pack/Hold) 10. Cooling 11. Benchmarking the Injection Molding Process 12. Process Troubleshooting 13. What is Important on a Set-Up Sheet? 14. Commonly Used Conversion Factors and Formulas 15. Machine Set-Up 16. Things That Hurt the Bottom Line of a Company 17. Terms and Definitions

Covering all species from yeast to humans, this is the first book to tell the story of selfish genetic elements that act narrowly to advance their own replication at the expense of the larger organism.

Bryozoa are a colonial animal phylum with a long evolutionary history, having existed from the early Ordovician (480 My) onward and still flourishing today. Several mass extinctions in earth history shaped and triggered bryozoan evolution through drastic turnover of faunas and new evolutionary lineages. Bryozoa are widespread across all latitudes from Equator to Polar Regions and occur in marine and freshwater environments. They are shaping benthic ecosystems and recording ambient environmental conditions in their skeletons. The book provides a synthesis of the current main topics of research in the field of Bryozoology including combined research on both extant, and extinct taxa. Fields or current research span molecular genetics and phylogeny, life history, reproduction and anatomy, biodiversity and evolutionary patterns in time and space, taxonomy, zoogeography, ecology, sediment interactions, and climate response.

Injection Mold Design Engineering Carl Hanser Verlag GmbH Co KG

The book offers an in-depth review of the materials design and manufacturing processes employed in the development of multi-component or multiphase polymer material systems. This field has seen rapid growth in both academic and industrial research, as multiphase materials are increasingly replacing traditional single-component materials in commercial applications. Many obstacles can be overcome by processing and using multiphase materials in automobile, construction, aerospace, food processing, and other chemical industry applications. The comprehensive description of the processing, characterization, and application of multiphase materials presented in this book offers a world of new ideas and potential technological advantages for academics, researchers, students, and industrial manufacturers from diverse fields including rubber engineering, polymer chemistry, materials

processing and chemical science. From the commercial point of view it will be of great value to those involved in processing, optimizing and manufacturing new materials for novel end-use applications. The book takes a detailed approach to the description of process parameters, process optimization, mold design, and other core manufacturing information. Details of injection, extrusion, and compression molding processes have been provided based on the most recent advances in the field. Over two comprehensive sections the book covers the entire field of multiphase polymer materials, from a detailed description of material design and processing to the cutting-edge applications of such multiphase materials. It provides both precise guidelines and general concepts for the present and future leaders in academic and industrial sectors.

This open access book discusses socio-environmental interactions in the middle to late Holocene, covering specific areas along the ancient Silk Road regions. Over twenty chapters provide insight into this topic from various disciplinary angles and perspectives, ranging from archaeology, paleoclimatology, antiquity, historical geography, agriculture, carving art and literacy. The Silk Road is a modern concept for an ancient network of trade routes that for centuries facilitated and intensified processes of cultural interaction and goods exchange between West China, Central Asia, the Middle East, and the Mediterranean. Coherent patterns and synchronous events in history suggest possible links between social upheaval, resource utilization and climate or environment forces along the Silk Road and in a broader area. Post-graduates in studying will benefit from this work, as well as it will stimulate young researchers to further explore the role played by the environment in long-term socio-cultural changes. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

This applications-oriented book describes the construction of an injection mold from the ground up. Included are explanations of the individual types of molds, components, and technical terms; design procedures; techniques, tips, and tricks in the construction of an injection mold; and pros and cons of various solutions. Based on a plastic part ("bowl with lid") specially developed for this book, easily understandable text and many illustrative pictures and drawings provide the necessary knowledge for practical implementation. Step by step, the plastic part is modified and enhanced. The technologies and designs that are additionally needed for an injection mold are described by engineering drawings. Maintenance and repair, and essential manufacturing techniques are also discussed. Now in full color, this second edition builds on the success of the first, with updates and small corrections throughout, as well as a new expanded section covering the process chain.

The authoritative introduction to all aspects of plastics engineering — offering both academic and industry perspectives in one complete volume. Introduction to Plastics Engineering provides a self-contained introduction to plastics engineering. A unique synergistic approach explores all aspects of material use — concepts, mechanics, materials, part design, part fabrication, and assembly — required for converting plastic materials, mainly in the form of small pellets, into useful products. Thermoplastics, thermosets, elastomers, and advanced composites, the four disparate application areas of polymers normally treated as separate subjects, are covered together. Divided into five parts — Concepts, Mechanics, Materials, Part Processing and Assembly, and

Material Systems — this inclusive volume enables readers to gain a well-rounded, foundational knowledge of plastics engineering. Chapters cover topics including the structure of polymers, how concepts from polymer physics explain the macro behavior of plastics, evolving concepts for plastics use, simple mechanics principles and their role in plastics engineering, models for the behavior of solids and fluids, and the mechanisms underlying the stiffening of plastics by embedded fibers. Drawing from his over fifty years in both academia and industry, Author Vijay Stokes uses the synergy between fundamentals and applications to provide a more meaningful introduction to plastics. Examines every facet of plastics engineering from materials and fabrication methods to advanced composites Provides accurate, up-to-date information for students and engineers both new to plastics and highly experienced with them Offers a practical guide to large number of materials and their applications Addresses current issues for mechanical design, part performance, and part fabrication Introduction to Plastics Engineering is an ideal text for practicing engineers, researchers, and students in mechanical and plastics engineering and related industries.

Accompanying CD-ROM contains graphic footage of various war wound surgeries.

Written in easy-to-read and -use format, this book updates and revises its bestselling predecessor to become the most complete, comprehensive resource on plastics testing. This book has an emphasis on significance of test methods and interpretation of results. The book covers all aspects of plastics testing, failure analysis, and quality assurance - including chapters on identification analysis, failure analysis, and case studies. The book concludes with a substantial appendix with useful data, charts and tables for ready reference. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Economic success in the plastics processing industry depends on the 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.

I am pleased to present the Fifth Edition of the Plastics Engineering Handbook. Last published in 1976, this version of the standard industry reference on plastics processing incorporates the numerous revisions and additions necessitated by 14 years of activity in a dynamic industry. At that last printing, then-SPI President Ralph L. Harding, Jr. anticipated that plastics production would top 26 billion pounds in 1976 (up from 1.25 billion in 1947, when the First Edition of this book was issued). As I write, plastics production in the United States had reached almost 60 billion pounds annually. Indeed, the story of the U.S. plastics industry always has been one of phenomenal growth and unparalleled innovation. While these factors make compilation of a book such as this difficult, they also make it necessary. Thus I acknowledge all those who worked to gather and relate the information included in this 1991 edition and thank them for the effort it took to make the Plastics Engineering Handbook a definitive source and invaluable tool for our industry. Larry L. Thomas President The Society of the Plastics Industry, Inc.

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

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governing the various injection molding processes without losing its practical flavor.

"Understanding Injection Molds" opens up the entire subject of injection mold technology, including numerous special procedures, in a well-grounded and practical way. It is specifically intended for beginners, young professionals, business owners, and engineering students. The chapters are clearly structured and easy to understand. The book is designed so that it provides a complete basic knowledge of injection molds in chronological order as well as day-to-day guidance and advice. The numerous color figures facilitate a rapid understanding of the content, which is especially helpful to the beginner who wants to learn about injection molds quickly. In the forefront of the description are thermoplastic molds. Divergent processes for thermoset or elastomer molds are explained at the end of each chapter. This book captures the current state of the art, and is written by authors who are specialists in the field. The second edition has been updated and improved throughout.

Eliminate the guesswork from critical mold aspects such as gate location, shape and size. And discover how to establish proper venting so you can prepare ideal mold venting - before the first shot is made. Both newcomers and experienced practitioners in the area of thermoplastics will benefit from its concise explanations of the methods and equipment used, the components necessary for smart mold design, a checklist for designing a mold, and the variety of finishes and textures available and how they are applied.

"This book offers an overview of the practices and the technologies that are shaping the knowledge production of the future"--Provided by publisher.

The book introduces the reader to the concepts of Scientific Molding and Scientific Processing for Injection Molding, geared towards developing a robust, repeatable, and reproducible (3Rs) molding process. The effects of polymer morphology, thermal transitions, drying, and rheology on the injection molding process are explained in detail. The development of a robust molding process is broken down into two sections and is described as the Cosmetic Process and the Dimensional Process. Scientific molding procedures to establish a 3R process are provided. The concept of Design of Experiments (DOEs) for and in injection molding is explained, providing an insight into the cosmetic and dimensional process windows. A plan to release qualified molds into production with troubleshooting tips is also provided. Topics that impact a robust process such as the use of regrind, mold cooling, and venting are also described. Readers will be able to utilize the knowledge gained from the book in their day-to-day operations immediately. The second edition includes a completely new chapter on Quality Concepts, as well as much additional material throughout the book, covering fountain flow, factors affecting post mold shrinkage, and factor selections for DOEs. There are also further explanations on several topics, such as in-mold rheology curves, cavity imbalances, intensification ratios, gate seal studies, holding time optimization of hot runner molds, valve gated molds, and parts with large gates. A troubleshooting guide for common molded defects is also provided.

Advances in Design examines recent advances and innovations in product design paradigms, methods, tools and applications. It presents fifty-two selected papers which were presented at the 14th CIRP International Design Seminar held in May 2004. This book will be bought by postgraduate and senior undergraduate students studying product design. It will also be of interest to researchers and practitioners working in the field of product design.

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-

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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. 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.

Supplying nearly 350 expertly-written articles on technologies that can maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques, this second edition provides gold standard articles on the methods, practices, products, and standards recently influencing the chemical industries. New material includes: design of key unit operations involved with chemical processes; design, unit operation, and integration of reactors and separation systems; process system peripherals such as pumps, valves, and controllers; analytical techniques and equipment; current industry practices; and pilot plant design and scale-up criteria. The goal of the book is to assist the designer in the development of parts that are functional, reliable, manufacturable, and aesthetically pleasing. Since injection molding is the most widely used manufacturing process for the production of plastic parts, a full understanding of the integrated design process presented is essential to achieving economic and functional design goals. Features over 425 drawings and photographs. Contents: Introduction to Materials. Manufacturing Considerations for Injection Molded Parts. The Design Process and Material Selection. Structural Design Considerations. Prototyping and Experimental Stress Analysis. Assembly of Injection Molded Plastic Parts. Conversion Constants.

An outstanding and thorough presentation of the complete field of plastics processing Handbook of Plastic Processes is the only comprehensive reference covering not just one, but all major processes used to produce plastic products-helping designers and manufacturers in selecting the best process for a given product while enabling users to better understand the performance characteristics of each process. The authors, all experts in their fields, explain in clear, concise, and practical terms the advantages, uses, and limitations of each process, as well as the most modern and up-to-date technologies available in their application. Coverage includes chapters on: Injection molding Compression and transfer molding Sheet extrusion Blow molding Calendering Foam processing Reinforced plastics processing Liquid resin

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processing Rotational molding Thermoforming Reaction injection molding Compounding, mixing, and blending Machining and mechanical fabrication Assembly, finishing, and decorating Each chapter details a particular process, its variations, the equipment used, the range of materials utilized in the process, and its advantages and limitations. Because of its increasing impact on the industry, the editor has also added a chapter on nanotechnology in plastics processing.

This book provides a vision and structure to finally synergize all the engineering disciplines that converge in the mold design process. 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" mold design applications. It should 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. Contents: · Introduction to mold functions, types, and components · Review of design for injection molding · Cost estimation and optimization · Mold layout design including cavity layout, sizing, and materials selection · Cavity, runner system, and gating analysis and design · Cooling system analysis and design · Venting, shrinkage, and warpage analysis and strategies · Ejection force analysis and ejection system designs · Stress and deflection analysis with structural system designs · A survey of advanced mold designs

This book covers a wide range of applications and uses of simulation and modeling techniques in polymer injection molding, filling a noticeable gap in the literature of design, manufacturing, and the use of plastics injection molding. The authors help readers solve problems in the advanced control, simulation, monitoring, and optimization of injection molding processes. The book provides a tool for researchers and engineers to calculate the mold filling, optimization of processing control, and quality estimation before prototype molding.

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 development of pesticide resistance in arthropod pests, plant pathogens and weeds can be viewed and studied from two contrasting perspectives. At a fundamental level, resistance provides an almost ideal example of adaptation to withstand severe environmental stress. Population geneticists, biochemists and, most recently, molecular biologists have cast considerable light on the nature of this adaptation in diverse taxonomic groups, and on factors determining its selection and spread within and between populations. Unlike most evolutionary phenomena, however, resistance is also of immediate practical and economic significance. Not only has the number of resistant species continued to increase inexorably, but there has been an alarming increase in the severity and extent of some resistance problems. Cases of organisms resisting virtually all available pesticides are by no means uncommon, and pose a formidable challenge in view of present difficulties in discovering and developing novel chemicals. Although most occurrences of resistance were initially monofactorial, resistance now frequently involves a suite of coexisting mechanisms that protect organisms against the same or different pesticide groups, and may even predispose them to resist new, as yet unused chemicals.

This handbook was written for the injection molding product designer who has a limited knowledge of engineering polymers. It is a guide for

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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.

A proliferation of lawsuits involving sport utility vehicles, defective tires, medical devices and drugs, and asbestos abounds. Public attention to products liability cases is at an all-time high, and awards routinely run into the millions of dollars. When developing a strategy in this high stakes world, attorneys can't afford to have anything other than the best information and insight into this evolving area of law. Lawyers need practical tools to assess a products liability case's potential and build their approach, and Shapo on the Law of Products Liability provides the tools to give you the winning edge. Through a holistic analysis of the law and its principal developments as witnessed in hundreds of cases, this treatise gives litigators a wide variety of perspectives on potential strategies, and the tools to support those strategies with persuasive arguments. This authoritative two-volume work will enable you to: Assess products liability case potential and build sound litigation strategies Dig deep into products liability law to build creative approaches to litigation Craft a winning case and reap the greatest reward for your clients Find the tools and information to support strategies with persuasive arguments Both federal and state courts contribute a rich mix of decisions to products liability law, which covers both consumer products and occupational hazards. This indispensable resource for the products liability practitioner helps you prepare your case. Is the product defective? Who is liable? What is the manufacturer's responsibility? Who can be sued? What kind of awards may be realized? How might this be defended? Shapo on the Law of Products Liability also includes coverage of: Asbestos litigation Chinese drywall Food and drug Medical devices Design/manufacturing defects claims Punitive damages Discovery rule Up to date analysis and commentary History and background on products liability law Damages Advertising material Packaging Marshall S. Shapo, the Frederic P. Vose Professor at Northwestern University School of Law, is a nationally recognized authority on torts and products liability law.

The original edition of Injection Molds proved to be an invaluable aid for everyone involved in the design and construction of injection molds. This new edition represents a fully revised, expanded, and up-to-date version of this popular guide. It incorporates the latest advances, such as the advent of computer-aided engineering, which have revolutionized the field, but it is written with the added perspective provided by years of experience in mold making and design. A general introduction familiarizes the reader with basic design details, including the types of injection molds, runners and gates, temperature control, types of ejectors, standard components and specialized designs, material varieties, and so forth. This is followed by over 100 examples that illustrate the types of molds described. These are presented according to classification: standard molds (two-plate, split-cavity, stripper-plate, and three-plate molds), stack molds, hot-runner molds, cold-runner molds, and special-design molds. The various hot-runner systems and the large molds that have gained in importance have been given special attention. Like the first edition, this book is a valuable resource that belongs in the library of every mold maker. It covers almost every problem likely to be encountered in the process, with a wealth of practical tips and proven shortcuts. The tested designs offered here are shown in full drawings, with detailed descriptions.

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