

Complete Casting Handbook Metal Casting Processes

The Charcoal Foundry David J. Gingery.2014-07-09 Charcoal Foundry, the first book in the Metal Working Shop From Scrap Series, gives you plans for building a metal melting furnace and instructions on basic pattern making and molding. All the information needed to set up a foundry in your work shop can be found in this book. Simply stated, if you can build a sand castle or make a mud pie, you can make a sand mold to produce castings for your metal shop projects. The main ingredient in these projects is scrap aluminum and pot metal. The only tools you need to get started are ordinary home shop hand tools, many of which are probably already in your possession. Much of the remainder is found as salvage or cast-off and little expense need be involved. The charcoal foundry is simple to build and operate and the initial cost is so low that it can be in the reach of nearly anyone. And the fundamentals of pattern-making and molding are easily understood and mastered. Once you have built the charcoal foundry and the metal lathe in book 2, there is little beyond your reach by way of shop equipment. Build as large or small as you wish and you are your own parts supply company. If you already have some machine shop equipment, you will find that adding a foundry to your shop greatly expands your capacity. Being able to produce your own castings for accessories and equipment is a great advantage. Design your own, make a copy or follow a plan. It's easy when you're in control and can produce your own castings.

The Prop Builder's Molding & Casting Handbook Thurston James.1989-11-15 The Prop Builder's Molding & Casting Handbook & break;& break;This is the first book to contain, in one comprehensive volume, every molding and casting procedure of use to the theater props builder (no matter what his or her level or proficiency). The author demonstrates the techniques involved in using more than thirty different materials ranging from papier-mache to breakaway glass. & break;& break;While the use of some materials-plaster and polyester resins, for example-is covered to some extent in other publications, information on the selection and use of rubber materials (latex, neoprene, silicone, and the urethanes) and the procedure for making breakaway windows and bottles is available only in The Prop Builder's Molding & Casting Handbook. & break;& break;Written in an easy, conversational style, the book will be useful to anyone involved with theater properties, puppetry, and costuming (as professionals or amateurs). It will also serve admirably the needs of students taking classes in those subjects. & break;& break;Completing the book is a special section on designing and building a vacuum forming machine suitable for use in constructing theater props. More than 450 photographs illustrate the step-by-step procedures explained throughout the entire text.

Steel Castings Handbook, 6th Edition Malcolm Blair,Thomas L. Stevens.1995-01-01
Casting Design and Performance .2009

Complete Casting Handbook John Campbell.2015-08-06 Campbell's Complete Casting Handbook: Metal Casting Processes, Techniques and Design, Second Edition provides an update to the first single-volume guide to cover modern principles and processes in such breadth and depth, while also retaining a clear, practical focus. The work has a unique viewpoint, interpreting the behavior of castings, and metals as a whole, in terms of their biofilm content, the largely invisible casting defects which control much of the structure and behavior of metals. This new edition includes new findings, many from John Campbell's own research, on crack initiation, contact pouring, vortex gates, and the Cosworth Process. Delivers the expert advice that engineers need to make successful and profitable casting decisions Ideal reference for those interested in solidification, vortex gates, nucleation, biofilm, remelting, and molding Follows a logical, two-part structure that covers both casting metallurgy and casting manufacture Contains established, must-have information, such as Campbell's '10 Rules' for successful casting manufacture Includes numerous updates and revisions based on recent breakthroughs in the industry

Complete Casting Handbook .2011

The Complete Handbook of Centrifugal Casting Philip Romanoff.1981

Aluminum Alloy Castings John Gilbert Kaufman,Elwin L. Rooy.2004-01-01 J. G. (Gil) Kaufman is currently president of his consulting company, Kaufman Associates.

Aluminium Castings Engineering Guide Jagan Nath.2018 This practical guide to product and process engineering of various aluminum castings emphasizes process and material characteristics; product-process-alloy integration; manufacturing aspects of aluminum casting; product design features; tooling design, feeding and gating design; product quality needs and specifications; product launches; and successful conversions of aluminum from steel and iron.

Foundry Engineering Robert Bruce Tuttle.2012-08-05 This book covers the science, engineering, and current art of the creation of metalcastings. Basic theory on gating design, solidification, and risering are presented. The metallurgy and processing of aluminum, cast iron, and steel are covered.

Casting: An Analytical Approach Alexandre Reikher,Michael R. Barkhudarov.2007-07-10 For a long time, the die cast industry has used trial and error as a leading development method, resulting in tremendous growth in the utilisation of available CFD (computational fluid dynamics) software. This software allows the development of better products that maximise the advantages the die cast process has to offer. Casting: An Analytical Approach will refresh knowledge of the governing laws of the fluid dynamics that have an effect on die cast die and die cast process design. MATLAB® (MathWorks, Inc.) and Visual Basic® (Microsoft) code are listed in Casting: An Analytical Approach for every stage of product, die and die cast process design; providing better understanding of die and process design and simplifying calculations of the die cast die as well as the die cast process. Gas ventilation system calculations and fundamentals of compressible gas flow are also included. Readers will learn about: the advantages and limitations of the die cast process; the implications that product design has on the quality of the die cast part; how die cast die and process design can affect the physical properties of the casting; the calculations die cast die and process designers have to do; choosing the die cast machine size and the proper gate size; and how to properly design gas ventilation systems, identify an ideal fill time, and calculate fast and slow shot velocity. The use of MATLAB® and Visual Basic® code to illustrate every stage of the design will help readers to gain a better understanding of the importance of collaboration throughout the entire process. Therefore, Casting: An Analytical Approach will be of interest to product designers who design die cast parts, and die cast die and process engineers and designers.

Al-Si Alloys Francisco C. Robles Hernandez,Jose Martin Herrera Ramírez,Robert Mackay.2017-07-02 This book details aluminum alloys with special focus on the aluminum silicon (Al-Si) systems - that are the most abundant alloys second only to steel. The authors include a description of the manufacturing principles, thermodynamics, and other main characteristics of Al-Si alloys. Principles of processing, testing, and in particular applications in the Automotive, Aeronautical and Aerospace fields are addressed.

Science and Technology of Casting Processes Malur Srinivasan.2012-09-26 This book deals with various science and technology factors that need careful consideration in producing a casting. It consists of 11 chapters contributed by experts in their respective fields. The topics include simulation of continuous casting process, control of solidification of continuous castings, influence of mold flux in continuous casting, segregation in strip casting of steel, developments in shell and solid investment mold processes, innovative pressure control during filling of sand molds, fracture toughness specifically of castings, permanent molding of cast iron, wear resistant castings and improvement of accuracy in estimating graphite nodularity in ductile iron castings.

Principles of Metal Casting Richard W. Heine, Carl R. Loper, Philip C. Rosenthal. 1976

Precision Casting Processes A. J. Clegg. 1991 This textbook describes the principal casting production processes available to the foundry industry and reviews their ability to produce precision castings. With its main emphasis on the casting processes, the book also outlines casting design, metal melting and treatment, quality control procedures in the production of precision castings and examines quality control procedures used by the foundry industry. It provides a valuable information source for designers and users of castings, practising foundrymen, and students of engineering and materials

Occupational Outlook Handbook United States. Bureau of Labor Statistics. 1957

Metal Shaping Processes Vukota Boljanovic. 2010 As the only comprehensive text focusing on metal shaping processes, which are still the most widely used processes in the manufacture of products and structures, Metal Shaping Processes carefully presents the fundamentals of metal shaping processes with their relevant applications. The treatment of the subject matter is adequately descriptive for those unfamiliar with the various processes and yet is sufficiently analytical for an introductory academic course in manufacturing. The text, as well as the numerous formulas and illustrations in each chapter, clearly show that shaping processes, as a part of manufacturing engineering, are a complex and interdisciplinary subject. The topics are organized and presented in such a manner that they motivate and challenge students to present technically and economically viable solutions to a wide variety of questions and problems, including product design. It is the perfect textbook for students in mechanical, industrial, and manufacturing engineering programs at both the Associate Degree and Bachelor Degree programs, as well a valuable reference for manufacturing engineers (those who design, execute and maintain the equipment and tools); process engineers (those who plan and engineer the manufacturing steps, equipment, and tooling needed in production); manufacturing managers and supervisors; product design engineers; and maintenance and reliability managers and technicians. Each chapter begins with a brief highlighted outline of the topics to be described. Carefully presents the fundamentals of the particular metal-shaping process with its relevant applications within each chapter, so that the student and teacher can clearly assess the capabilities, limitation, and potentials of the process and its competitive aspects. Features sections on product design considerations, which present guidelines on design for manufacturing in many of the chapters. Offers practical, understandable explanations, even for complex processes. Includes text entries that are coded as in an outline, with these numerical designations carried over the 320 related illustrations for easy cross-referencing. Provides a dual (ISO and USA) unit system. Contains end-of-chapter Review Questions. Includes a chapter on sheet metalworking covering cutting processes; bending process; tubes and pipe bending; deep drawing processes; other sheet metal forming process (stretch forming, spinning, rubber forming, and superplastic forming and diffusion bonding). Provides a useful die classification with 15 illustrations and description; presses for sheet metalworking; and high energy-rate forming processes. A chapter on nontraditional manufacturing process discusses such important processes as mechanical energy processes (ultrasonic machining, water jet cutting); electrochemical machining processes (electrochemical machining, electrochemical grinding); thermal energy processes (electric discharge processes, laser beam machining, electron beam machining); and chemical processes (chemical milling). Part I: Casting and Molding Fundamentals of Metal Casting Metal-Casting Processes Metal Casting: Design and Materials Part II: Particulate Processing for Metals Powder Metallurgy Part III: Deformation Processes Fundamentals of Metal Forming Rolling of Metals Forging. Extrusion and Drawing of Metals Sheet Metalworking Part IV: Metal Removal Processes Fundamentals of Metal Machining Machining Processes Abrasive Machining Processes Nontraditional Machining Processes Appendix Index

Evolution of Metal Casting Technologies Muhammad Azhar Ali Khan, Anwar Khalil Sheikh, Bilal Suleiman Al-Shaer. 2016-11-03 This book provides an overview of metal casting technologies starting from its historical evolution to casting design strategies that are being followed today in foundries and other metal casting industries. The details of most of the casting processes and their applications are also included for completeness. Foundry practices such as mold materials and molding techniques, pattern making and cores, furnaces, pouring, cleaning and heat treatment etc. are discussed in detail. Finally, current practices in casting design are demonstrated. Further developments in the field through computational methods and virtual reality are also described.

Complete Casting Handbook: Metal Casting Processes, Metallurgy, Techniques and Design John Campbell. 2017-11-13 Complete Casting Handbook is the result of a long-awaited update, consolidation and expansion of expert John Campbell's market-leading casting books into one essential resource for metallurgists and foundry professionals who design, specify or manufacture metal castings. The first single-volume guide to cover modern principles and processes in such breadth and depth whilst retaining a clear, practical focus, it includes: A logical, two-part structure, breaking the contents down into casting metallurgy and casting manufacture Established, must-have information, such as Campbell's 10 Rules for successful casting manufacture New chapters on filling system design, melting, molding, and controlled solidification techniques, plus extended coverage of a new approach to casting metallurgy Providing in-depth casting knowledge and process know-how, from the noteworthy career of an industry-leading authority, Complete Casting Handbook delivers the expert advice needed to help you make successful and profitable castings. Long-awaited update, consolidation and expansion of expert John Campbell's market-leading casting books into one essential handbook Separated into two parts, casting metallurgy and casting manufacture, with extended coverage of casting alloys and new chapters on filling system design, melting, moulding and controlled solidification techniques to compliment the renowned Campbell 10 Rules Delivers the expert advice that engineers need to make successful and profitable casting decisions

Metal Casting Steve Hurst. 1996 Metallurgy.

Handbook of Manufacturing Engineering and Technology Andrew Y. C. Nee. 2014-10-31 The Springer Reference Work Handbook of Manufacturing Engineering and Technology provides overviews and in-depth and authoritative analyses on the basic and cutting-edge manufacturing technologies and sciences across a broad spectrum of areas. These topics are commonly encountered in industries as well as in academia. Manufacturing engineering curricula across universities are now essential topics covered in major universities worldwide.

The Complete Handbook of Sand Casting C. W. Ammen. 1979-03-22 Describes the sand foundry, the characteristics of molding sand, the types of mold and pattern making equipment, and the various sand casting procedures for forming metals.

Fine Art Metal Casting Richard Rome, Hamish Young. 2003 Mould making and the lost wax casting of metals for fine art are long-established techniques, which involve both artistic and material science considerations. The methods described in Fine Art Metal Casting cross a broad range of disciplines, from ceramics and glass through to jewellery and areas of conservation, archaeology, and palaeontology, where replicas must be made. This book provides a unique, all-encompassing, visually-based demonstrative source which will prove invaluable for art-, craft-, and design-based practitioners, art historians and curators, scientists and conservators, and researchers and students.

The Casting Handbook Suzy Catliff, Jennifer Granville. 2013-06-26 Casting is a crucial creative element of any production - and yet the craft and skills needed to put together a successful and exciting cast are often overlooked. The Casting Handbook explains the casting process from beginning to end and covers everything producers and directors need to know - as well as proving a fascinating and illuminating read for actors. The book explores: how to prepare a breakdown where to source actors how to prepare for a casting session how to make casting decisions how a cast is put together how deals are done ethics and the law, with special reference to casting children how a casting director contributes to the initial development of the script how the casting works from fringe theatre to Hollywood blockbusters The Casting Handbook considers actors', producers', agents' and directors' relationship with a casting director, the day to day work that is casting, and how approaching it in a professional and informed manner can make the difference to the final product. Including interviews with actors, agents, directors, casting directors and producers; case studies; exercises; and a fact file of useful templates and contacts, this book offers a thorough induction into the casting process, suitable for students and early career professionals in any media.

Metalcasting C. W. Ammen.2000 A-to-Z guide to low-volume metalcasting There's plenty of demand for one-shot or low production metalcasting job work, but the work often goes begging for lack of anyone to do it. Interested? Metalcasting by C.W. Ammen is packed with step-by-step guidelines for getting started and working effectively and efficiently in this time-honored craft. You get hands-on advice and cost-cutting tips, plus sound ideas for safety and productivity. In easy-to-understand language, this guide shows you how to use metalcrafting's tools and processes, casting and mold making...molding sands...molding equipment...metal melting, handling, and pouring devices...alloys...and more, including: *Patination of cast metals *Working with chemically-bonded molds *Newest molding, casting, and pattern-making techniques A Frequently Asked Questions section anticipates and responds to typical beginner's queries about applications and repair techniques and other metalcasting issues.

Castings Practice John Campbell.2004-04-16 Each chapter of Professor Campbell's new book Castings Practice will take a look at one of his 10 rules. It is to be expected that the Rules will one day be taken as an outline or blueprint for an international specification on the methods for making reliable castings. John Campbell has over two decades of experience in the casting industry and is the author of over 40 technical papers and patents. He has become well-known in the foundry industry as the originator of the Cosworth casting process, which is becoming accepted throughout the world as a new production process for the casting of cylinder heads and blocks. He is now Federal Mogul Professor of Casting Technology at the University of Birmingham. * Must-follow rules of castings, from one of the world's leading experts * Companion volume to the renowned book 'Castings' * Accessible and direct, provides essential information for students of metallurgy and foundry professionals alike

Principles of Metal Casting, Third Edition Mahi Sahoo,Sam Sahu.2014-06-05 The definitive metal casting resource--fully updated Written by prominent industry experts, Principles of Metal Casting, Third Edition, addresses the latest advances in the field such as melting, casting processes, sand systems, alloy development, heat treatment, and processing technologies. New chapters cover solidification modeling, casting defects, and zinc and zinc alloys. Detailed photographs, illustrations, tables, and equations are included throughout. Ideal for students and researchers in metallurgy and foundry science as well as foundry industry professionals, this authoritative guide provides all of the information needed to produce premium-quality castings. Comprehensive coverage includes: Patterns Casting processes Solidification of metals and alloys Gating and risering of castings Casting process simulation Aluminum and aluminum alloys Copper and copper alloys Magnesium and magnesium alloys Zinc and zinc alloys Cast irons Steel castings Cleaning and inspection Casting defects

Solidification and Casting: Brian Cantor,K O'Reilly.2016-04-19 Written by leading experts in their respective fields, Solidification and Casting provides a comprehensive review of topics fundamental to metallurgy and materials science as well as indicates recent trends. From an industrial perspective, the book begins with chapters on the casting techniques most commonly used in industry today. It then d

Castings John Campbell.2003-04-28 This is the key publication for professionals and students in the metallurgy and foundry field. Fully revised and expanded, Castings Second Edition covers the latest developments in the understanding of the role of the liquid metal in controlling the properties of cast materials, and indeed, of all metallic materials that have started in the cast form. Practising foundry engineers, designers, and students will find the revealing insights into the behaviour of castings essential in developing their understanding and practice. John Campbell OBE is a leading international figure in the castings industry, with over four decades of experience. He is the originator of the Cosworth Casting Process, the pre-eminent production process for automobile cylinder heads and blocks. He is also co-inventor of both the Baxi Casting Process (now owned by Alcoa) developed in the UK, and the newly emerging Alotech Casting Process in the USA. He is Professor of Casting Technology at the University of Birmingham, UK. New edition of this internationally respected reference and textbook for engineers and students Develops understanding of the concepts and practice of casting operations Castings' is the key work on castings technology and process metallurgy, and an essential resource on contemporary developments and thinking on the new metallurgy of cast alloys Revised and updated throughout, with new material on subjects including surface turbulence, the new theory of entrainment defects including folded film defects, plus the latest concepts of alloy theory

Die Casting Metallurgy Alan Kaye,Arthur Street.2016-01-22 Die Casting Metallurgy focuses on developments in the metallurgy of die casting. Ore distribution, smelting methods, and energy requirements for the major non-ferrous metals that are die cast are considered. This text has 29 chapters; the first of which provides an overview of early developments in die casting. After explaining how metals and alloys are die cast, the book turns to the production of aluminum and its alloys, aluminum alloy die castings, and melting equipment for aluminum alloys. The chapters that follow explore the metallurgy of zinc and magnesium alloys; brass and ferrous die casting; automatic metal transfer systems; metal melting treatments; and the metallurgy of die casting machines. Developments in lubrication, die casting, and finishing processes are also considered. This book also describes pressure die casting dies, thermal fatigue of die casting dies, heat treatment of die steels, and surface treatment of steels. Some comparative alloy specifications are summarized and an attempt is made to correlate units of hardness, strength, and other properties. This book will be of interest to materials scientists and industrial materials engineers.

Metal Casting: Principles And Practice T V Ramana Rao.2007 In This Book, The Topics/Syllabus Adequately Cover Metal Casting Subject In The Courses Of Mechanical, Production And Metallurgy Branches For B.E., B.Tech. As Well As Production And Industrial Metallurgy For M.Tech.With His Direct Experience In Metal Casting Industry And Teaching Academics The Author Attempts To Bridge The Gap Existing Between Essential Theory In Books And Vital Practical Applications In Industry.It Contains All The Molding Processes Normally Used With Details Of Ingredient Testing,Different Stages Of Casting Production Essential Theory Of Gating And Riser, As Well As Finishing, Inspection And Quality Control.Over 80 Line Sketches Facilitate Easy Understanding. Information Given Through Over 20 Tables Help Easy Comprehension, Comparison And Remembrance. Exhaustive Examples Of Specific Components Normally Made By Casting Process Help To Build Confidence When Entering Industry. Over 200 Technical Books And Research Papers Upto May 1996 Are Referred. Examples Of Working Computer Programs Given, Form The Basis For Modern Practice-Oriented Projects In Final Year.For Practising Engineers, Managers And Entrepreneurs, This Book Provides Useful Theory And Practical Aspects On Foundry Management. Exhaustive Treatment Of Critical Gating & Riser With Many Industry Examples, Practical Solutions To Melting Problems, Casting Defects Analysis Through Cause-Effect Diagrams Will Be Very Useful. Essential Information. On Energy Conservation And Environmental Pollution Control Is Also Given In The Last Chapter.

Casting Processes and Modelling of Metallic Materials Zak Abdallah,Nada Aldoumani.2021-02-24 This book, Casting Processes and Modelling of Metallic Materials, explores the various casting and modelling activities related to metallic alloy systems. The book provides results of research work conducted by experts from all over the globe to add to the research community in the era of the casting process and modelling. The book was edited by two experts in the field of materials science and modelling, Dr. Abdallah and Dr. Aldoumani, whom both have several publications in peer-reviewed journals, worldwide conferences, and scientific books. The book introduces the casting processes and then discusses the various issues and possible solutions. Over the past years, various models have been proposed and utilized to predict the performance of castings. Some of these models proved to be accurate whereas others failed to predict the casting performance. The strength of any predictive tool depends on the employment of physically meaningful parameters that replicate the real-life conditions. This has been illustrated in the current book with such predictive models and finite element (FE) modelling to illustrate the behaviour of castings in real-life conditions.

Handbook of Metallurgical Process Design George E. Totten,Kiyoshi Funatani,Lin Xie.2004-05-25 Reviewing an extensive array of procedures in hot and cold forming, casting, heat treatment, machining, and surface engineering of steel and aluminum, this comprehensive reference explores a vast range of processes relating to metallurgical component design-enhancing the production and the properties of engineered components while reducing manufacturing costs. It surveys the role of computer simulation in alloy design and its impact on material structure and mechanical properties such as fatigue and wear. It also discusses alloy design for various materials, including steel, iron, aluminum, magnesium, titanium, super alloy compositions and copper.

Metal Casting Steve Chastain.2004

Separation Technologies for the Industries of the Future National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Commission on Engineering and Technical Systems, Committee on Industrial Technology Assessments, Panel on Separation Technology for Industrial Reuse and Recycling. 1999-02-08 Separation processes—processes that use physical, chemical, or electrical forces to isolate or concentrate selected constituents of a mixture—are essential to the chemical, petroleum refining, and materials processing industries. In this volume, an expert panel reviews the separation process needs of seven industries and identifies technologies that hold promise for meeting these needs, as well as key technologies that could enable separations. In addition, the book recommends criteria for the selection of separations research projects for the Department of Energy's Office of Industrial Technology.

Manufacturing Processes Savita Sharma. 2008-01-01 It deals with fundamental concepts of materials & metallurgy, foundry, metal working, welding techniques, pattern making & carpentry, industrial safety, metal cutting & machine tools, non-conventional machining techniques and quality control. The book is presented in a simple style, with summary at a glance at the end of each chapter before Review Questions and can be best used by students of all levels. A large number of diagrams have been included for illustrating the subject matter. It is an ideal introductory textbook on Manufacturing Processes. Salient Features: * The book covers all topics related with workshop technology or manufacturing processes. * Line diagrams have been used to explain the fundamentals and working of machines. * One chapter has been devoted to Non-Conventional Machining Techniques. * Problems from various examinations and university papers have been used in Review Questions. * Quality Control forms part of the book.

METAL CASTING B. RAVI. 2005-01-01 This book presents a scientific approach to metal casting design and analysis supported by software tools. Unlike other books in metal casting focused only on the process know-how, this book uncovers the know-why as well. Besides serving the needs of students of mechanical, production and metallurgical engineering, this book is equally meant to benefit practicing engineers involved or interested in casting development, including product designers, toolmakers, foundry engineers, supply chain managers, engineering consultants, researchers, and software developers. The theory discussed in the book is applicable to all types of castings: ferrous and non-ferrous, produced in sand and metal moulds. By gaining a better understanding of the theory and logic involved through creating, analysing and optimizing virtual castings, the readers will learn how to: Design process-friendly cast products, leading to shorter development time Manufacture assured quality castings, leading to fewer rejections and 'surprises' Manage material and energy utilization, leading to higher yield and lower costs.

High Integrity Die Casting Processes Edward J. Vinarcik. 2002-10-16 It's about time that a practicing engineer with casting and academic experience has written a book that provides answers to questions about squeeze casting and semi-solid molding/forming that many engineers and students of casting need answered. —Joseph C. Benedyk, PhD, Consultant and retired technical director, Alcoa High Integrity Die Casting Processes provides a comprehensive look at the concepts behind advanced die casting technologies, including vacuum die casting, squeeze casting, and several variants of semi-solid metalworking. Practical applications for these processes are illustrated in numerous case studies. This single-source reference tool presents the latest material in five sections: Basic concepts of die casting and molten metal flow High integrity die casting processes with case studies Product design considerations Controlling quality and avoiding defects Future advances under development Key coverage includes a survey of liquid metal flow, strategies to overcome the limitations of conventional die casting, and potential defects unique to high integrity die casting processes. Also featured are methods for minimizing porosity, reducing cost by design, practical applied statistical process control techniques, designing for manufacturability, and containment methods for potential processing defects. Several chapters present detailed real-world examples illustrating the broad range of applications possible using high integrity die casting processes. Included with this book is a CD-ROM containing PowerPoint(r) presentations for each chapter. These presentations can be used for training purposes in conjunction with numerous study questions designed to practically apply the content of the book to real-world situations. Selected PowerPoint(r) slides can be used to support engineering proposals, marketing presentations, or customer education seminars. High Integrity Die Casting Processes is a valuable reference for both component producers and component users alike. Process engineers, tool designers, manufacturing engineers, production managers, and machine operators will acquire a better understanding of these advanced die casting processes to optimize manufacturing and improve product quality. Component designers, product engineers, purchasing agents, buyers, supplier quality engineers, and project managers will gain insight into these processes and develop superior products by design.

Direct Strip Casting of Metals and Alloys M Ferry. 2006-03-24 Direct strip casting is a continuous casting process for producing metallic sheet directly from the molten state that minimises the need for substantial secondary processing. This important book is the first to review the implications of strip casting technology for a range of alloys, including carbon and stainless steel, aluminium, magnesium, titanium, copper and other non-ferrous alloys. The book is divided into six chapters, with the first two describing the physical metallurgy of candidate alloys for direct strip casting and the development of microstructure during solidification. Chapter 3 describes the principles of continuous casting processes and the evolution of direct strip casting. It provides the foundation for the following two chapters which describe process variables and their impact on microstructure and strip quality. The final chapter describes possible techniques in secondary processing and fabrication of the as-cast strip. Two appendices discuss simulation and modelling issues, and the measurement and representation of textures in metal strip. Direct strip casting of metals and alloys is a standard reference on a technology destined to have a profound impact on the manufacturing landscape of the twenty-first century. First book to review the implications of strip technology for a range of alloys Essential book on a technology destined to have a profound impact on the manufacturing landscape of the twenty-first century

Foundry Technology Peter R. Beeley. 1972

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Complete Casting Handbook Metal Casting Processes Introduction

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