

Complete Casting Handbook Metal Casting Processes Techniques And Design

Foundry Technology Complete Casting Handbook The Gray Iron Castings Handbook METAL CASTING AND JOINING Aluminum Alloy Castings Hot Metal Physical Metallurgy of Direct Chill Casting of Aluminum Alloys How to Cast Small Metal and Rubber Parts Aluminium Castings Engineering Guide Metals Reference Book Fundamentals of Aluminium Metallurgy Casting defects handbook : Aluminium and Aluminium alloys Principles of Metal Casting Steel Castings Handbook, 6th Edition Die Casting Metallurgy Foundry Manual Castings Handbook of Lost Wax Or Investment Casting Evolution of Metal Casting Technologies Iron Castings Engineering Handbook Metalcasting The Charcoal Foundry Continuous Casting of Steel Investment Casting Handbook Castings Practice Complete Casting Handbook Fundamentals of Aluminium Metallurgy Mini Casting Handbook Principles of Metal Casting, Third Edition Handbook of Manufacturing Engineering and Technology Complete Casting Handbook Foseco Foundryman's Handbook The Prop Builder's Molding & Casting Handbook Casting Defects Handbook Metal Casting Handbook on Steel Bars, Wires, Tubes, Pipes, S.S. Sheets Production with Ferrous Metal Casting & Processing Farm and Workshop Welding The Complete Handbook of Sand Casting Backyard Foundry for Home Machinists The Mechanisms of Metallurgical Failure

Foundry Technology

Complete Casting Handbook

Detailed information and photographs show how to construct equipment and jewelry, castings, molds, and patterns for jewelry and metal.

The Gray Iron Castings Handbook

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.

METAL CASTING AND JOINING

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Reflecting the changes that have occurred in making castings, this book provides a practical reference for all those concerned with making castings in any of the commonly used alloys by any of the usual moulding methods. International SI units, Metric and Imperial units are used throughout.

Aluminum Alloy Castings

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

Hot Metal

Physical Metallurgy of Direct Chill Casting of Aluminum Alloys

Part II: Casting Metallurgy 1. The Melt 2. Entrainment 3. Flow 4. Molds and Cores (updated and expanded) 5. Solidification Structure 6. Casting Alloys (new chapter) 7. Porosity 8. Cracks and Tears (new consolidated chapter) 9. Properties of Castings Part II: Casting Manufacture 10. The 10 Rules 11. Filling System Design Fundamentals 12. Filling System Components 13. Filling System Design Practice 14. Melting 15. Molding 16. Casting 17. Controlled Solidification Techniques 18. Dimensional Accuracy 19. Post-Casting Processing Index.

How to Cast Small Metal and Rubber Parts

Each chapter of Professor Cambell'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 Cambell 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

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leading experts * Companion volume to the renowned book 'Castings' * Accessible and direct, provides essential information for students of metallurgy and foundry professionals alike

Aluminium Castings Engineering Guide

The process of casting metal in a sand mold, a craft which has been practiced for centuries, is actually very simple. Most towns of any size once had a small foundry to perform small-scale casting jobs. Today's home shop machinist must either adapt commercially available castings, or send away to a specialist foundry at considerable expense and delay. The alternative is to make your own custom patterns and castings, which is much easier and rewarding than you may think. This handy book will show you how. Backyard Foundry for Home Machinists is essential reading for anyone interested in getting started in foundry or casting work. It provides a wealth of useful information on materials and techniques, pattern-making, molding boxes, cores and core-boxes, and melting metals. Locomotive cylinders and wheels are covered in depth for model engineers. The book also offers a design for building an outdoor solid-fuel furnace, suitable for small-scale commercial work. Each stage and subject is covered in detail so that even beginners can undertake casting with confidence.

Metals Reference Book

Fundamentals of Aluminium Metallurgy

Casting defects handbook : Aluminium and Aluminium alloys

Techniques for simple and inexpensive foundry work and polyurethane molding including casting and molding equipment and methods with directions for making various objects, especially applicable to car and antique restoration

Principles of Metal Casting

Fundamentals of Aluminium Metallurgy: Recent Advances updates the very successful book Fundamentals of Aluminium Metallurgy. As the technologies related to casting and forming of aluminum components are rapidly improving, with new technologies generating alternative manufacturing methods that improve competitiveness, this book is a timely resource. Sections provide an overview of recent research breakthroughs, methods and techniques of advanced manufacture, including additive manufacturing and 3D printing, a comprehensive discussion of the status of metalcasting technologies, including sand casting, permanent mold casting, pressure diecastings and investment casting, and recent information on advanced wrought alloy development, including automotive bodysheet materials, amorphous glassy materials, and more. Target readership for the book includes PhD students and academics, the casting

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industry, and those interested in new industrial opportunities and advanced products. Includes detailed and specific information on the processing of aluminum alloys, including additive manufacturing and advanced casting techniques Written for a broad ranging readership, from academics, to those in the industry who need to know about the latest techniques for working with aluminum Comprehensive, up-to-date coverage, with the most recent advances in the industry

Steel Castings Handbook, 6th Edition

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

Die Casting Metallurgy

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

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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

Foundry Manual

This Manual is intended primarily for use by foundry personnel aboard repair ships and tenders. The recommended practices are based on procedures proved workable under Navy conditions and are supplemented by information from industrial sources. The Manual is divided into two general sections. The first section, chapters 1 through 13, contains information of a general nature, such as "How Metals Solidify," "Designing a Casting," "Sands for Molds and Cores," "Gates, Risers, and Chills," and "Description and Operation of Melting Furnaces." Subjects covered in these chapters are generally applicable to all of the metals that may be cast aboard ship. The second section, chapters 14 through 21, contains information on specific types of alloys, such as "Copper-Base Alloys," "Aluminum-Base Alloys," "Cast Iron," and "Steel." Specific melting practices, suggestions for sand mixes, molding practices, gating, and risering are covered in these chapters. This manual has been

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written with the "how-to-do-it" idea as the principal aim. Discussions as to the "why" of certain procedures have been kept to a minimum. This manual contains information that should result in the production of consistently better castings by repair ship personnel.

Castings

Handbook of Lost Wax Or Investment Casting

In volume one (1) the author shows the beginner how to make a sand mold and then how to hone your skills to produce high quality castings. Written in non-technical terms, the sand casting manuals begin by melting aluminium cans over a charcoal fire and end by casting a cylinder head. Volume two (2) continues the sand casting manual by describing more advanced techniques.

Evolution of Metal Casting Technologies

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.

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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.

Iron Castings Engineering Handbook

A comprehensive, visual handbook for welding in the farm, home workshop, school workshop, blacksmith shop, or auto shop. Almost anyone can weld, cut, or shape metal. That's the starting point for this supremely practical book which helps the beginner to improve and the intermediate operator to broaden their technique. Its 10 sections describe all the major types of welds before progressing into trickier methods. With this comprehensive guide, you'll understand everything you need to know, from arc, TIG, MIG, and gas welding to plasma cutting, soldering, welding plastics, and more. Beyond welding metals and plastics, advice extends into the wider workshop with chapters on drills, cutting threads, and basic blacksmithing. Filled with helpful visuals and photography, detailed explanations, expert suggestions, and step-by-step directions, author and experienced welding instructor Andrew Pearce also lays out common pitfalls and mistakes, and how to avoid or correct them.

Metalcasting

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

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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 Charcoal Foundry

This monograph provides university professionals and students, those working in the steel industry and steel plant suppliers in related activities, with a concise

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account of the engineering, process and product technology of continuous casting of steel and its development over recent years.

Continuous Casting of Steel

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

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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

Investment Casting Handbook

The first edition of this book was written as a textbook for college-level courses in metal casting for metallurgical and mechanical-engineering students. Since that time, there have been many advances in the engineering sciences. Major recognition of engineering curricula in colleges has completely altered the sequences of presentation of engineering subjects and courses.

Castings Practice

Complete Casting Handbook

J. G. (Gil) Kaufman is currently president of his consulting company, Kaufman Associates.

Fundamentals of Aluminium Metallurgy

Designed for the undergraduate students of mechanical engineering and allied branches, this book serves as a bridge between the study of the basic processes and their application in production industries. This book covers two similar fundamental processes—foundry and welding—in a single volume. The chapters of the book are grouped in seven

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modules. A separate module is devoted to introduce the preliminaries of the two areas namely casting and joining processes. Miscellaneous welding and allied processes, including the modern methods and thermal cutting, conventional sand mould casting, special and modern casting methods, conventional metal joining processes and theory of solidification of metal, its metallurgy, defects in castings and casting design procedure are covered in the book. The theory of each process is explained with the help of simple line sketches which can be easily reproduced by a student at the time of examination. Enough worked out examples and problems are given for practice, especially in the design areas. At the end of each chapter, sufficient number of review questions are given as exercise.

Mini Casting Handbook

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

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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

Principles of Metal Casting, Third Edition

Handbook of Manufacturing Engineering and Technology

This introduction to the art of the metal casting of sculpture combines practical, hands-on instruction with scientifically accurate descriptions of the many processes that a metal sculptor must learn in order to master the craft. Metal sculpture is part of a human tradition that goes back at least 8,000 years. It makes use of all five of the earth's essential elements: earth, air, fire, water, and light. The author, a renowned expert in the field, provides beginners and

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intermediate-level metal workers and artists with a step-by-step introduction to this complex, but richly rewarding, art form.

Complete Casting Handbook

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.

Foseco Foundryman's Handbook

Pulling together information previously scattered throughout numerous research articles into one detailed resource, *Physical Metallurgy of Direct Chill Casting of Aluminum Alloys* connects the fundamentals of structure formation during solidification with the practically observed structure and defect patterns in billets and ingots. The author examines the formation of a structure, properties, and defects in the as-cast material in tight correlation to the physical phenomena involved in the solidification and the process parameters. The book draws on the author's advanced research to provide a unique application of physical metallurgy to direct chill (DC) casting technology. He examines structure and defect formation— including macrosegregation and hot tearing. Each technology-centered chapter provides

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historical background before reviewing current developments. The author supports his conclusions with computer simulation results that have been correlated with highly progressive experimental data. He presents a logical system of structure and defect formation based on the specific features of the DC casting process. He also demonstrates that the seemingly controversial results reported in literature are, in fact, caused by the different ratio of the same mechanisms. Compiling recent results and data, the book discusses the fundamentals of solidification together with metallurgical and technological aspects of DC casting. It gives new insight and perspective into DC casting research.

The Prop Builder's Molding & Casting Handbook

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

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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.

Casting Defects Handbook

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

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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

Ferrous materials have made a major contribution to the development of modern technology; they span a tremendous range of properties and applications. Reflecting the industrial practices, the information provided here offers easy access to reliable processes involved in the manufacturing of Steel products like Steel Bars, Wires, Tubes, Pipes, Sheets etc that proves to be the backbone of construction and automobile industries booming worldwide. The work closes the gap in the treatment of steel and cast iron. Each chapter takes into account the gradual transitions between the two types of ferrous materials. It demonstrates that ferrous metal and steel are versatile and customizable materials which will continue to play a key role in the future and also covers the operations performed on ferrous metals for converting them into a commodity. The book provides a full characterization of steel, including structure, chemical composition, classifications, physical properties, production practices of different steel products, processing of ferrous metals and so on. It will prove to be a layman's guide for the entrepreneurs who are willing to invest in the ventures related to Iron and Steel Industries, as it

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contains information related to processing of ferrous metals and production practices followed in Steel products manufacturing units. The text discusses the importance and objectives of processes and material used for the production of disposable products. Many examples have been provided to illustrate the concepts discussed. The topics covered in the book are: Casting of Ferrous Metals, Heat Treatment of Ferrous Metals, Stamping Process of Ferrous Metals, Forming Process of Ferrous Metals, Machining Process of Ferrous Metals, Joining Process of Ferrous Metals, Production of Stainless Steel Wire, Production and Fabrication of Steel Bars, Steel Tube & Pipe, Stainless Steel Sheet and Different Grades of Stainless Steel.

Handbook on Steel Bars, Wires, Tubes, Pipes, S.S. Sheets Production with Ferrous Metal Casting & Processing

Farm and Workshop Welding

Metallurgy of Fracture: The Mechanics of Metal Failure looks at the origin of metal defects, their related mechanisms of failure, and the modification of casting procedures to eliminate these defects, clearly connecting the strength and durability of metals with their fabrication process. The book starts with a focus on the fracture of liquids, looking at topics such as homogeneous and heterogeneous nucleation, entrainment processes in bifilms and bubbles, furling and unfurling, ingot casting, continuous casting, and more. From there it discusses fracture of liquid and

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solid state, focusing on topics such as externally and internally initiated tearing. The book then concludes with a section discussing fracture of solid metals covering concepts such as ductility and brittleness, dislocation mechanisms, the relationship between the microstructure and properties of metals, corrosion, hydrogen embrittlement, and more. Improved approaches to fabrication and casting processes that will help eliminate these defects are provided throughout. Looks at how the fracture of metals originates in the liquid-state due to poor casting practices Offers improved casting techniques to reduce liquid-state borne fracture Draws attention to the parallels between fracture initiation in the liquid and solid states Covers spall tests and how to improve material quality by hot isostatic pressing

The Complete Handbook of Sand Casting

Aluminium is an important metal in manufacturing, due to its versatile properties and the many applications of both the processed metal and its alloys in different industries. Fundamentals of aluminium metallurgy provides a comprehensive overview of the production, properties and processing of aluminium, and its applications in manufacturing industries. Part one discusses different methods of producing and casting aluminium, covering areas such as casting of alloys, quality issues and specific production methods such as high-pressure diecasting. The metallurgical properties of aluminium and its alloys are reviewed in Part two, with chapters on such topics as hardening, precipitation processes and

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solute partitioning and clustering, as well as properties such as fracture resistance. Finally, Part three includes chapters on joining, laser sintering and other methods of processing aluminium, and its applications in particular areas of industry such as aerospace. With its distinguished editor and team of expert contributors, Fundamentals of aluminium metallurgy is a standard reference for researchers in metallurgy, as well as all those involved in the manufacture and use of aluminium products. Provides a comprehensive overview of the production, properties and processing of aluminium, and its applications in manufacturing industries Considers many issues of central importance in aluminium production and utilization considering quality issues and design for fatigue growth resistance Metallurgical properties of aluminium and its alloys are further explored with particular reference to work hardening and applications of industrial alloys

Backyard Foundry for Home Machinists

The Mechanisms of Metallurgical Failure

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

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essential topics covered in major universities worldwide.

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