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Metal Casting: Principles And Practice - T V Ramana Rao ...

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.

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traditional ingot casting, such as continuous casting, centrifugal casting, electro-slag remelting, or hot-isostatic pressing, produce noticeably different as-cast patterns. Also, there is a wide variety of metalworking processes that can be applied to material made by any of the above processes, and each exerts a different effect upon the ...

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Metal Casting by T. V. Ramana Rao, 9788122408430, available at Book Depository with free delivery worldwide.

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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.

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

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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

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

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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.

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

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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.

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