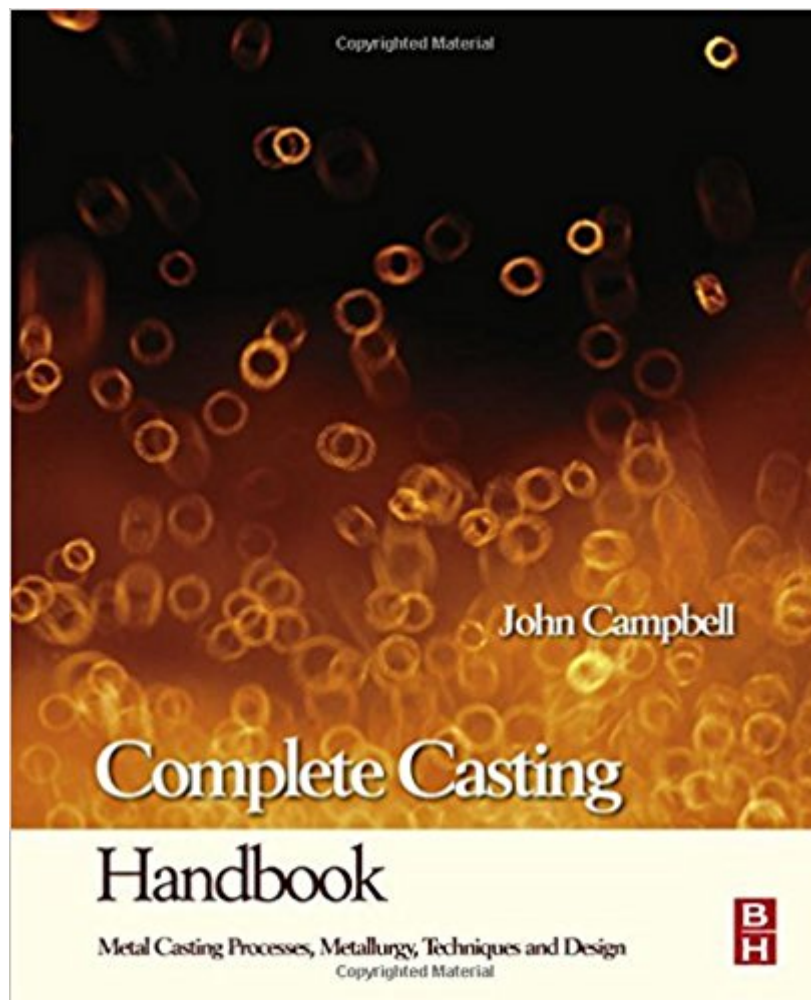




Ebook Directory
the best source of ebook

The book was found

Complete Casting Handbook: Metal Casting Processes, Techniques And Design



Synopsis

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's 10 Rules

Delivers the expert advice that engineers need to make successful and profitable casting decisions

Book Information

Hardcover: 1220 pages

Publisher: Butterworth-Heinemann; 1 edition (August 25, 2011)

Language: English

ISBN-10: 1856178099

ISBN-13: 978-1856178099

Product Dimensions: 7.5 x 2.4 x 9.2 inches

Shipping Weight: 4.6 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars 4 customer reviews

Best Sellers Rank: #434,794 in Books (See Top 100 in Books) #26 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Extraction & Processing #107 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Metallurgy #270 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Manufacturing

Customer Reviews

"In this, his latest book, Prof Campbell expands and develops many of the topics that he has previously considered and includes the more conventional casting technology subjects in one complete reference guide. Throughout the book, the emphasis is on casting quality, or the minimisation of defects, and John's passion for his subject shines through. He takes careful note of the basic science, the physics and maths of how liquids flow, cool and solidify, but does not get blind with science. Indeed his many years of practical problem solving with foundries means that he recognises the many constraints faced by the methods engineer. Given that during the casting process there are so many ways in which the metal quality can be compromised, his aim throughout is for foundries to be able to produce castings of consistent quality at lowest cost. Above all he wants to encourage a considered approach to the design of the running system and to the metal supply system. | The ideal book for metallurgists and foundry engineers who design, specify or manufacture metal castings and a 'must have' reference guide for every foundry."

--Foundry

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.

I'm a metallurgist at a sand casting foundry. I've seen the problems with the conventional system of casting. Although we haven't adopted Campbell's methods wholesale, they make a lot of sense from a theoretical physical metallurgy perspective. The creation of entrainment defects does occur from the interaction of metal and air(oxygen). These oxides have a higher melting temperature than metal and are seen in the end result of the casting process. Quality inspection show tears (though these are often a result of thermal stresses, they still need an origin), slag and sand inclusions that a

properly designed filling system should be able to avoid. The text focuses primarily on aluminium alloys. Although it often lacks exact specifics, it is overall a very thorough general guide on the theory of the latest research in the field and with some essential recommendations for improvement.

Brilliant indepth research work Very helpfull in achieving perfection

My son wanted this book for Christmas so I was happy that I was able to find it. Thank you.

I found this is a book that any metallurgist should have. By reading this book you can understand Complete Casting Handbook: Metal Casting Processes, Techniques and DesignÂ everything about casting a sound part including designing of sprue, runner, gates and feeder.

[Download to continue reading...](#)

Complete Casting Handbook: Metal Casting Processes, Techniques and Design Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design Heavy Metal Rhythm Guitar: The Essential Guide to Heavy Metal Rock Guitar (Learn Heavy Metal Guitar) (Volume 1) Bronze Casting Manual: Cast your own small bronze. A complete tutorial taking you step by step through an easily achievable casting project for professional sculptors and hobbyists. Learn to Weld: Beginning MIG Welding and Metal Fabrication Basics - Includes techniques you can use for home and automotive repair, metal fabrication projects, sculpture, and more Sheet Metal Handbook: How to Form and Shape Sheet Metal for Competition, Custom and Restoration Use Sheet Metal Forming Processes and Die Design The Heavy Metal Guitar Bible: The Complete Guide to Modern Heavy Metal Guitar Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills) Heavy Metal Africa: Life, Passion, and Heavy Metal in the Forgotten Continent Full Metal Jackie Certified: The 50 Most Influential Heavy Metal Songs of the 80s and the True Stories Behind Their Lyrics Lithium Metal Anodes and Rechargeable Lithium Metal Batteries (Springer Series in Materials Science) Transition Metal Complexes as Drugs and Chemotherapeutic Agents (Catalysis by Metal Complexes) Warm Glass: A Complete Guide to Kiln-Forming Techniques: Fusing, Slumping, Casting Precious Metal: Decibel Presents the Stories Behind 25 Extreme Metal Masterpieces Progressive Metal Guitar: An Advanced Guide to Modern Metal Guitar Metal Detecting for Kids: An Easy Guide for Finding Buried Treasures With a Metal Detector Metal Bible NLT: Silver Cross (Heavy Metal Bible Series) Metal Bible NLT: Silver Thirsty

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)