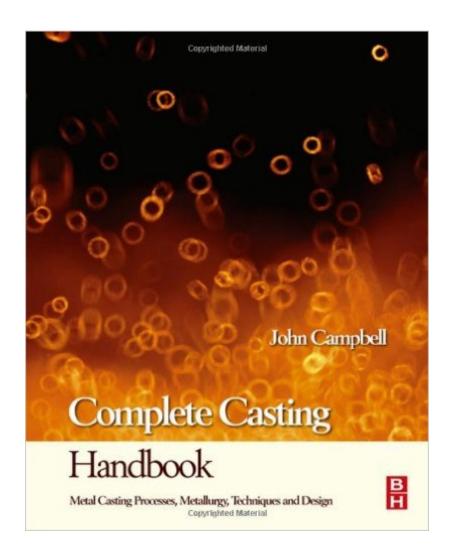
## The book was found

# 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 Campbellâ ™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 Campbellâ ™s â ^10 Rulesâ ™ for successful casting manufactureNew 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 Campbellâ ™s market-leading casting books into one essential handbookSeparated 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 â 10 Rulesâ ™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 Â See all reviews (4 customer reviews)

Best Sellers Rank: #384,207 in Books (See Top 100 in Books) #11 in Books > Engineering &

Transportation > Engineering > Materials & Material Science > Extraction & Processing #75

in Books > Engineering & Transportation > Engineering > Materials & Material Science >

Metallurgy #205 in Books > Engineering & Transportation > Engineering > Industrial,

Manufacturing & Operational Systems > Manufacturing

## **Customer Reviews**

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 interation 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 recomendations for improvement.

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

Brilliant indepth research workVery helpfull in achieving perfection

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

#### Download to continue reading...

Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design Complete Casting Handbook: Metal Casting Processes, Techniques and Design 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 Principles of Metal Casting, Third Edition Building Fences of Wood, Stone, Metal, & Plants: Making Fence with Wood, Metal, Stone and Living Plants Metal Detecting: Without A Detector: How To Find Treasure When You Can't Use Your Metal Detector (Gold, Coins & Jewelry) The Metal Lathe (Build Your Own Metal Working Shop From Scrap Series Book 2) Blacksmithing: 15 Modern DIY Metal Projects for Beginners: (Blacksmithing, Metal Work) (Knife Making, Bladesmith) Manual De Torno Para Metal: Torno Para Metal (Coleccion Como Hacer Bien Y Facilmente) (Spanish Edition) Metal-Ligand Multiple Bonds: The Chemistry of Transition Metal Complexes Containing Oxo, Nitrido, Imido, Alkylidene, or Alkylidyne Ligands Metal Ions in Biological Systems: Volume 29: Biological Properties of Metal Alkyl Derivatives Designing From The Stone: Design Techniques for Bezel Setting in Metal

Clay Using the Stone as Inspiration Metal Fatigue Analysis Handbook: Practical Problem-solving Techniques for Computer-aided Engineering The Art of Resin Jewelry: Layering, Casting, and Mixed Media Techniques for Creating Vintage to Contemporary Designs The Modern Witchcraft Spell Book: Your Complete Guide to Crafting and Casting Spells Feng Shui: Wellness and Peace-Interior Design, Home Decorating and Home Design (peace, home design, feng shui, home, design, home decor, prosperity) Sheet Metal Fabrication: Techniques and Tips for Beginners and Pros (Motorbooks Workshop) Making Etched Metal Jewelry: Techniques and Projects, Step by Step Metal Style: 2 Jewelry Designs with Cold Join Techniques Interior Designer's Portable Handbook: First-Step Rules of Thumb for the Design of Interiors (McGraw-Hill Portable Handbook)

Dmca