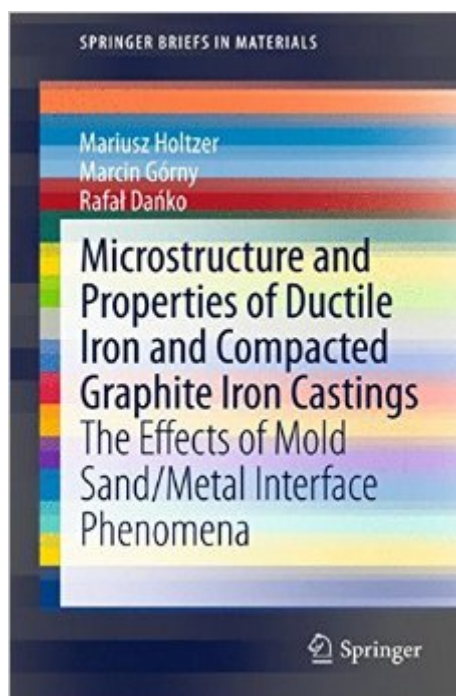


The book was found

Microstructure And Properties Of Ductile Iron And Compacted Graphite Iron Castings: The Effects Of Mold Sand/Metal Interface Phenomena (SpringerBriefs In Materials)



Synopsis

This book provides an overview of the surface effects at the interface boundary of metal/sand moulds, and their influence on the surface quality, microstructure and mechanical and anticorrosive properties of high-quality cast iron. It explores utilitarian aspects of the production of high-quality cast iron castings, including thin-walled castings of high-quality cast iron alloys, and examines problems related to the determination of moulding sands and reclaim quality, and their influence on castings. Presenting new material, this book takes into account the influence of metal quality, pouring temperature, solidification time, the quality of moulding sand with the reclaim application, as well as the binders of moulding sands, on the formation of the degenerated graphite near surface layers. It also employs the latest research methods, such as a wavelength-dispersive spectrometer (WDS) analysis and thermodynamic calculations, which were carried out on the reactions occurring in the study area. Providing a valuable resource to academics and researchers interested in materials science, metal casting and metallurgy, this book is also intended for metal industry professionals.

Book Information

Series: SpringerBriefs in Materials

Paperback: 158 pages

Publisher: Springer; 2015 edition (April 9, 2015)

Language: English

ISBN-10: 3319145827

ISBN-13: 978-3319145822

Product Dimensions: 6.1 x 0.4 x 9.2 inches

Shipping Weight: 11.7 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,623,641 in Books (See Top 100 in Books) #223 in Books > Engineering & Transportation > Engineering > Mechanical > Welding #695 in Books > Science & Math >

Physics > Dynamics > Thermodynamics #1341 in Books > Textbooks > Science & Mathematics > Mechanics

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

Microstructure and Properties of Ductile Iron and Compacted Graphite Iron Castings: The Effects of Mold Sand/Metal Interface Phenomena (SpringerBriefs in Materials) Metal Matrix Syntactic Foams: Processing, Microstructure, Properties and Applications Cast Iron Cookware Recipes 4 Books in 1

Book Set - Cooking with Cast Iron Skillets (Book 1) Cast iron Cookbook (Book 2) Cooking with Cast Iron (Book 3) Paleo Cast Iron Skillet Recipes (Book 4) Concrete: Microstructure, Properties, and Materials The Mold Cure: Natural and Effective Solutions to Mold Growth, Allergies, and Mycotoxins Cast Iron Skillet Cookbook - International Cast Iron Recipe Favorites: Travel The World With Your Cast Iron Skillet - Delicious Cast Iron Recipes Dental Materials: Properties and Manipulation, 9e (Dental Materials: Properties & Manipulation (Craig)) Metal Ions in Biological Systems: Volume 29: Biological Properties of Metal Alkyl Derivatives After Effects for Flash / Flash for After Effects: Dynamic Animation and Video with Adobe After Effects CS4 and Adobe Flash CS4 Professional Graphite IRON MAN, VOL. 1: 1963-1980: Every Marvel IRON MAN Comic Book Cover From 1963 (Tales Of Suspense #39) And The 1968 Series (IRON MAN COMIC BOOK COVERS) Cast Iron Cookbook: The Only Cast Iron Skillet Cookbook and Cast Iron Skillet Recipes You Will Ever Need The Simple Skillet Cookbook: 15 Elegant and Easy Recipes for Your Cast Iron or Electric Skillet (Cast Iron Cooking - Skillet Recipes - Cast Iron Skillet Cookbook) Cast Iron Cookbook - The Ultimate Guide to Cast Iron Cooking: Delicious Cast Iron Recipes You Can't Resist The Ultimate Guide to Cast Iron Cooking: Unlock Over 25 Cast Iron Skillet Recipes - The Only Cast Iron Cookbook You Will Ever Need Explosive Effects and Applications (Shock Wave and High Pressure Phenomena) Thermal Energy Storage Using Phase Change Materials: Fundamentals and Applications (SpringerBriefs in Applied Sciences and Technology) Steel Castings Handbook Castings Ceramics: Mechanical Properties, Failure Behaviour, Materials Selection (Springer Series in Materials Science)

[Dmca](#)