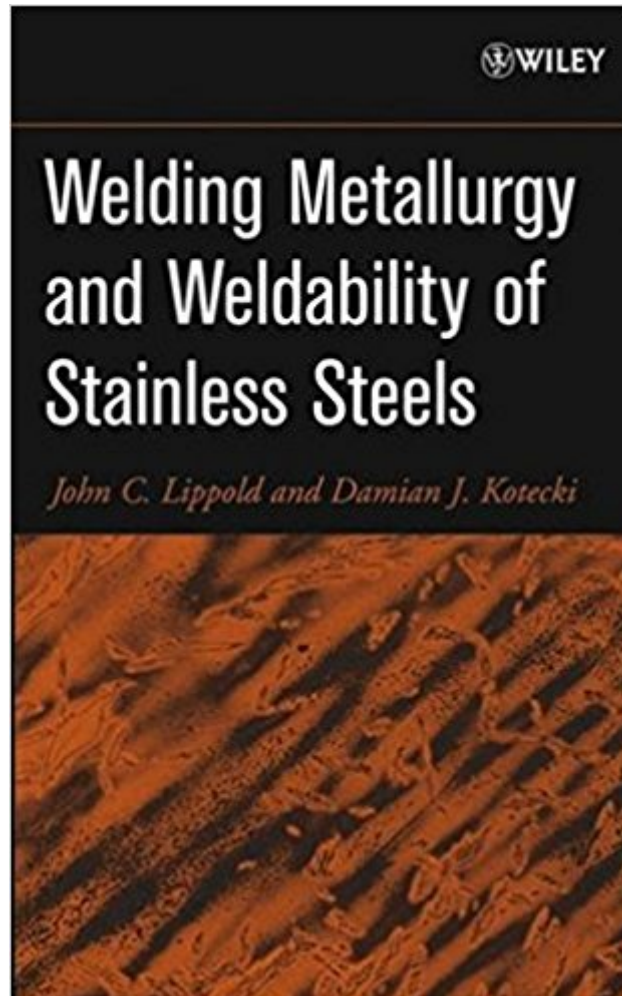




Ebook Directory
the best source of ebook

The book was found

Welding Metallurgy And Weldability Of Stainless Steels



Synopsis

Welding Metallurgy and Weldability of Stainless Steels, the first book in over twenty years to address welding metallurgy and weldability issues associated with stainless steel, offers the most up-to-date and comprehensive treatment of these topics currently available. The authors emphasize fundamental metallurgical principles governing microstructure evolution and property development of stainless steels, including martensitic, ferritic, austenitic, duplex, and precipitation hardening grades. They present a logical and well-organized look at the history, evolution, and primary uses of each stainless steel, including detailed descriptions of the associated weldability issues.

Book Information

Hardcover: 376 pages

Publisher: Wiley-Interscience; 1 edition (April 1, 2005)

Language: English

ISBN-10: 0471473790

ISBN-13: 978-0471473794

Product Dimensions: 6.2 x 1 x 9.2 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 3 customer reviews

Best Sellers Rank: #574,837 in Books (See Top 100 in Books) #104 in Books > Engineering & Transportation > Engineering > Mechanical > Welding #591 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science #2537 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems

Customer Reviews

"...offers a solid and detailed coverage of welding with stainless steels." (E-STREAMS, August 2006) "...an exciting metallurgy book...that is difficult to put down..." "the authors have performed an excellent piece of work in developing this book." (Materials and Manufacturing Processes, February 2006) "...a delight to read...has a wealth of information and written in a concise, informative manner..." (MRS Bulletin, January 2006) "...an authoritative resource for both students and professionals that serves as a handy reference...essential." (CHOICE, December 2005) "...information is not something that can be easily found in most metallurgical reference books...extremely useful for the selection or application of stainless steels." (Journal of Metals Online, July 21, 2005) "...an up-to-date textbook that will surely become a

respected volume for years to come." (Welding Journal, September 2005)

The definitive resource for understanding the welding metallurgy of stainless steels **Welding Metallurgy and Weldability of Stainless Steels**, the first book in over twenty years to address welding metallurgy and weldability issues associated with stainless steel, offers engineers, scientists, and students the most up-to-date and comprehensive treatment of these topics currently available. The authors emphasize fundamental metallurgical principles governing microstructure evolution and property development of stainless steels, including martensitic, ferritic, austenitic, duplex, and precipitation-hardening grades. They present a logical and well-organized look at the history, evolution, and primary uses of each stainless steel, including detailed descriptions of the associated weldability issues. Coverage includes the latest information on: Common stainless steel alloys and their composition Physical and welding metallurgy of different alloy systems Mechanical properties of welded stainless steels The technology and uses of "super" stainless steel alloys Dissimilar metal joints and weldability issues Methods for evaluating weldability Real-world solutions to weldability challenges In addition to describing the applications and limitations of stainless steels for welded construction, the text also addresses common failures in welded stainless steels associated with fabrication and service exposure, and how such failures may be avoided.

This is an excellent text and sourcebook for practicing engineers. While not a handbook, this book contains a lot of useful data, however, its primary value is as text that gives general guidance and explains why the alloys behave as they do. The authors of this book are world leaders in the subject matter, and as expected, they have produced a first-rate book. The book begins with three chapters, which concisely describe the metallurgy of stainless steels, followed by five chapters that discuss the welding of the different types of stainless steels (i.e., Austenitic, Ferritic, Martensitic, Duplex and Precipitation Hardened stainless steels). The final two chapters discuss the welding of dissimilar steels and weldability testing.

For me, this is the best up to date review book on stainless steels and especially about their welding metallurgy and weldability. The metallurgic mechanisms and the effects on weldability are very well explained. A wide range of technical people including students can use and understand the book easily. I have been reading Dr. Kotecki's Q&A part and Lippold's articles in Welding Journal for more than ten years, so have gathered some data from these parts of them also made me appreciate them. I guess there couldn't have been a better book nowadays about weldability of SSs

also.

While the book is required reading for Dr. Lippold's class at Ohio State, I have continued to find use for it as a practicing Welding Engineer in industry. There is no better book available for stainless steel welding metallurgy.

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

Welding Metallurgy and Weldability of Stainless Steels Welding Metallurgy and Weldability of Nickel-Base Alloys Extractive Metallurgy of Tin (Process metallurgy) Welding Metallurgy Handbook of Structural Welding, Processes, materials and methods used in the welding of major structures, pipelines and process plants. The Welding Business Owner's Hand Book: How to Start, Establish and Grow a Welding or Manufacturing Business Welding Licensing Exam Study Guide (McGraw-Hill's Welding Licensing Exam Study Guide) The Physics of Welding: International Institute of Welding (Materials Science & Technology Monographs) Steels: Processing, Structure, and Performance, Second Edition Steels: Microstructure and Properties, Fourth Edition Heat Treatment, Selection, and Application of Tool Steels 2E Down under: Mineral heritage in Australasia : an illustrated history of mining and metallurgy in Australia, New Zealand, Fiji and Papua New Guinea (Monograph) Japanese Swords: Cultural Icons of a Nation; The History, Metallurgy and Iconography of the Samurai Sword Japanese Swords: Cultural Icons of a Nation; The History, Metallurgy and Iconography of the Samurai Sword (Downloadable Material) Practical Metallurgy and Materials of Industry (6th Edition) Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design Extractive Metallurgy of Nickel, Cobalt and Platinum Group Metals Metal Forming: Mechanics and Metallurgy Material Science and Metallurgy Metallurgy and Materials PE Exam Solved Problems

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)