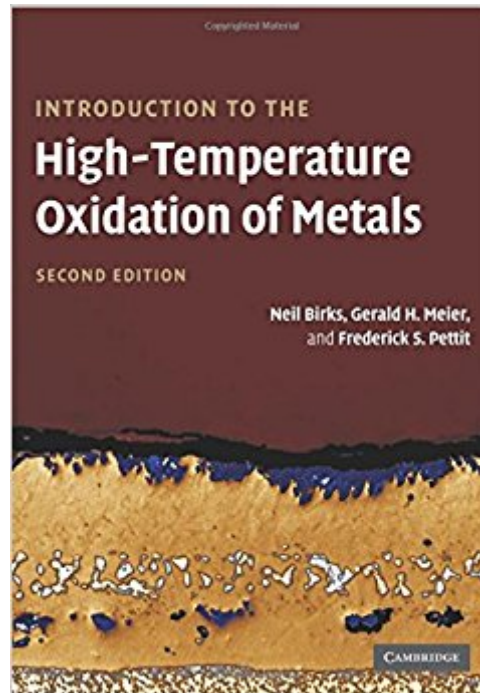




Ebook Directory
the best source of ebook

The book was found

Introduction To The High Temperature Oxidation Of Metals



Synopsis

A straightforward treatment describing the oxidation processes of metals and alloys at elevated temperatures. This 2006 second edition retains the fundamental theory but incorporates advances made in understanding degradation phenomena. The first half provides an authoritative introduction to the basic principles, covering thermodynamics and mechanisms of high temperature corrosion of metals and alloys. The latter half extends the discussion to oxidation processes in complex systems, from reactions in mixed environments to protective techniques, including coatings and atmosphere control. The authors provide a logical and expert treatment of the subject, producing a revised edition that will be a comprehensive guide to material scientists and engineers requiring an understanding of this elementary process.

Book Information

Paperback: 352 pages

Publisher: Cambridge University Press; 2 edition (July 23, 2009)

Language: English

ISBN-10: 0521485177

ISBN-13: 978-0521485173

Product Dimensions: 6.7 x 0.8 x 9.6 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #464,671 in Books (See Top 100 in Books) #115 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Metallurgy](#) #456 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science](#) #2013 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems](#)

Customer Reviews

"Overall the book is very well presented...I would recommend this book for anyone coming to the subject for the first time as well as practising scientists for whom it's use as a brush-up to their knowledge and as the basis of many valuable references makes it a very valuable resource."Dr. J.A. Little, Materials Characterization"For the past twenty years, Birk's first edition has been the most important university textbook on the subject of high-temperature oxidation of metals. This new edition seems likely to continue to lead the field." --The Journal of Science and Engineering; Corrosion

A straightforward treatment describing the oxidation processes of metals and alloys at elevated temperatures. This 2006 second edition retains the fundamental theory and applies it to reactions in mixed environments and protective techniques. This book is a comprehensive guide to material scientists and engineers requiring an understanding of this elementary process.

I purchased this textbook for background use in a graduate level high temperature corrosion class. The book does pretty good job of explaining corrosion phenomena with lots of pictures and discrete steps. I found it very helpful for learning the basics of an unfamiliar topic. I learn by example, and I think this book could use more numerical examples with concrete equations. I would recommend pairing it with David Young's "High Temperature Oxidation and Corrosion of Metals" for an awesome book combination to well learn about high temperature oxidation and corrosion reactions.

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

Introduction to the High Temperature Oxidation of Metals The Periodic Table of Elements - Alkali Metals, Alkaline Earth Metals and Transition Metals | Children's Chemistry Book High Fiber Recipes: 101 Quick and Easy High Fiber Recipes for Breakfast, Snacks, Side Dishes, Dinner and Dessert (high fiber cookbook, high fiber diet, high fiber recipes, high fiber cooking)

High-Temperature Superconductivity: An Introduction In Situ Chemical Oxidation for Groundwater Remediation (SERDP ESTCP Environmental Remediation Technology) Principles and Practices of in Situ Chemical Oxidation Using Permanganate Oxidation and Reduction in Organic Synthesis (Oxford Chemistry Primers) Hypersonic and High-Temperature Gas Dynamics, Second Edition (AIAA Education) Physics of Shock Waves and High-Temperature Hydrodynamic Phenomena (Dover Books on Physics) Hypersonic and High Temperature Gas Dynamics The Manufacture of High Temperature Superconducting Tapes and Films High Blood Pressure Cure: How To Lower Blood Pressure Naturally in 30 Days (Alternative Medicine, Natural Cures, Natural Remedies, High Blood Pressure ... Cures for High Blood Pressure, High BI) MT4 High Probability Forex Trading Method (Forex, Forex Trading System, Forex Trading Strategy, Oil, Precious metals, Commodities, Stock Indices, Currency Trading Book 1) An Introduction to Grain Boundary Fracture in Metals (1) Sous Vide Cookbook: Modern Sous Vide Recipes – The Art and Science of Cooking For Perfectly Low-Temperature Cooked Meals Sous Vide Cookbook: Modern Sous Vide Recipes – The Art and Science of Cooking For Perfectly Low-Temperature Cooked Meals (Plus Photos, Nutrition Facts) Sous Vide - Full Guide to Cooking Sous Vide Recipes. Top Techniques of Low-Temperature Cooking Processes.: Sous Vide Cooker Recipes with Pictures Full Guide to

Cooking Sous Vide Recipes: op Techniques of Low-Temperature Cooking Processes Anova Sous
Vide Precision Cooker Cookbook: 101 Delicious Recipes With Instructions For Perfect
Low-Temperature Immersion Circulator Cuisine! (Sous-Vide Immersion Gourmet Cookbooks)
(Volume 2) Sproutman's Kitchen Garden Cookbook: 250 flourless, Dairyless, Low Temperature,
Low Fat, Low Salt, Living Food Vegetarian Recipes

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)