

<<国外名校名著>>

图书基本信息

书名：<<国外名校名著>>

13位ISBN编号：9787122034564

10位ISBN编号：7122034569

出版时间：2008-9

出版时间：尼里 (Neely.J.E.)、 贝汤 (Bertone.T.J.) 化学工业出版社 (2008-09出版)

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页数：449

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前言

This textbook on metallurgy and materials is ideally used as an introductory book for both materials science and metallurgy courses and for students whose majors are closely related, such as quality control, machine tool technology, welding technology, and many others. Practical Metallurgy and Materials of Industry, Sixth Edition, includes many of the latest industry processes that change the physical and mechanical properties of materials and is highly recommended as a "materials processing" reference handbook in support of design, process, electrical, and chemical technicians and engineers. The book is intended to be easy to read. We make an effort to explain complex metallurgical terms in clear, practical language within the text. An extensive glossary is also included. Practical Metallurgy and Materials of Industry, Sixth Edition, establishes a solid foundation for understanding the behavior and characteristics of metals and materials as well as the practices for materials processing currently used in the metals and materials industry. The text also provides the student with a basic understanding of the mechanisms that cause material failures and those that prevent failures. The highly visual approach in this book uses graphics, drawings, illustrations, and photographs of actual equipment used to produce the alloy and/or perform specific processing operations during product manufacturing. Photomicrographs are often included to show the differences in metals when they are subjected to certain conditions such as heating, forming, or forging. A reinforcement approach to instruction is used throughout the book by building on previously covered information and by encouraging the student to read the material, use the worksheets, read the case problems, and complete the self-evaluation section at the end of each chapter.

内容概要

This textbook on metallurgy and materials is ideally used as an introductory book for both materials science and metallurgy courses and for students whose majors are closely related, such as quality control, machine tool technology, welding technology, and many others. Practical Metallurgy and Materials of Industry, Sixth Edition, includes many of the latest industry processes that change the physical and mechanical properties of materials and is highly recommended as a "materials processing" reference handbook in support of design, process, electrical, and chemical technicians and engineers. The book is intended to be easy to read. We make an effort to explain complex metallurgical terms in clear, practical language within the text. An extensive glossary is also included. Practical Metallurgy and Materials of Industry, Sixth Edition, establishes a solid foundation for understanding the behavior and characteristics of metals and materials as well as the practices for materials processing currently used in the metals and materials industry. The text also provides the student with a basic understanding of the mechanisms that cause material failures and those that prevent failures.

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书籍目录

Chapter 1 Extracting Metal from Ores
Chapter 2 The Casting of Metals
Chapter 3 The Physical and Mechanical Properties of Metals
Chapter 4 The Crystal Structure of Metals, Basic Phase Diagrams, and the Metallographic Sample Preparation Laboratory
Chapter 5 Classification, Identification, and Selection of Iron Alloys
Chapter 6 The Manufacturing of Steel Products
Chapter 7 Heat-Treating Equipment
Chapter 8 The Iron-Carbon Phase Diagram
Chapter 9 The Hardenability of Steels, I-T/T-T-T Diagrams, and Cooling Curves
Chapter 10 Annealing, Stress Relieving, Normalizing, Hardening, and Tempering of Steels
Chapter 11 Welding Processes for iron and Iron Alloys
Chapter 12 Identification and Heat Treatment of Nonferrous Metals
Chapter 13 Metallurgy of Welds: Nonferrous Metals
Chapter 14 Powder Metallurgy
Chapter 15 Corrosion of Metals
Chapter 16 Composite Materials
Chapter 17 Nondestructive Testing
Chapter 18 Plastics and Elastomers
Chapter 19 Ceramic Materials
Chapter 20 Wood and Paper Products
Chapter 21 Adhesives, Industrial Lubricants, and Gases
Chapter 22 Hardness Testing
Chapter 23 Failure Analysis and Materials Characterization Techniques
Appendix
Glossary
Index

章节摘录

插图：

编辑推荐

《冶金学与工业材料概论(第6版)(英文影印版)》由化学工业出版社出版。

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