

<<国外名校名著>>

图书基本信息

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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：

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