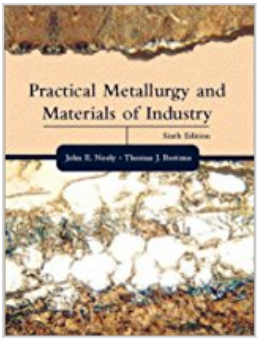

Practical Metallurgy and Materials of Industry (6th Edition)

By John E. Neely, Thomas J. Bertone

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This practical introduction to engineering materials/metallurgy maintains a low mathematical level designed for two-year technical programs. The easy-to-read, highly accessible Sixth Edition includes many of the latest industry processes that change the physical and mechanical properties of materials. This book can be used as a "materials processing" reference handbook in support of Design, Process, Electrical and Chemical technicians and engineers.

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Practical Metallurgy and Materials of Industry (6th Edition) By John E. Neely, Thomas J. Bertone Bibliography

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Editorial Review

From the Publisher
Introductory, practical overview of engineering materials/metallurgy a low-mathematical level for the two-year technical programs.

From the Back Cover

Practical Metallurgy and Materials of Industry, Sixth Edition, provides a practical introduction to engineering materials /metallurgy. It includes many of the latest industry processes that change the physical and mechanical properties of materials. Numerous illustrations and photo micrographs are provided to support and enhance the material presented in the text.

Other features of this classic text on metals and other modern materials include:

- review questions and case problems at the end of each chapter
- 8 pages of color illustrations of heat treatment, mechanical testing, metallography, fractography, failure analysis, and corrosion
- information on sample preparation for testing

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.

The format of the book is adaptable to the conventional lecture, lab, or individual approach to instruction.

Objectives, chapter text, self-tests, and worksheets are intended to help both the student and the instructor: All are consistent in that testing is relevant to the objectives and discussions. The self-test review questions are aimed toward helping the student understand the material. For this purpose, answers to the self-evaluation review questions are found in the appendix. Multiple-choice posttest questions and keys for most chapters are provided in the Instructor's Manual that is available to any instructor using this textbook. Instructions are also given in the Instructor's Manual on how to set up a simple metallurgical laboratory and on utilizing the text in a variety of educational settings.

It is our hope that students of metallurgy and materials science, machine tool technology, welding technology, quality control, manufacturing, and related technologies will become better prepared by understanding the manufacturing processes that influence the behavior of materials, as well as the materials with which they work.

John E. Neely/Thomas J. Bertone

Users Review

From reader reviews:

Karen Lawless:

Have you spare time for a day? What do you do when you have much more or little spare time? That's why, you can choose the suitable activity regarding spend your time. Any person spent their particular spare time to take a go walking, shopping, or went to the Mall. How about open or read a book entitled Practical Metallurgy and Materials of Industry (6th Edition)? Maybe it is to become best activity for you. You already know beside you can spend your time with your favorite's book, you can better than before. Do you agree with it is opinion or you have some other opinion?

Willie Alford:

Spent a free time for you to be fun activity to do! A lot of people spent their down time with their family, or their own friends. Usually they doing activity like watching television, gonna beach, or picnic in the park. They actually doing same thing every week. Do you feel it? Do you want to something different to fill your personal free time/ holiday? Could possibly be reading a book can be option to fill your free time/ holiday. The first thing you will ask may be what kinds of publication that you should read. If you want to consider look for book, may be the book untitled Practical Metallurgy and Materials of Industry (6th Edition) can be very good book to read. May be it can be best activity to you.

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