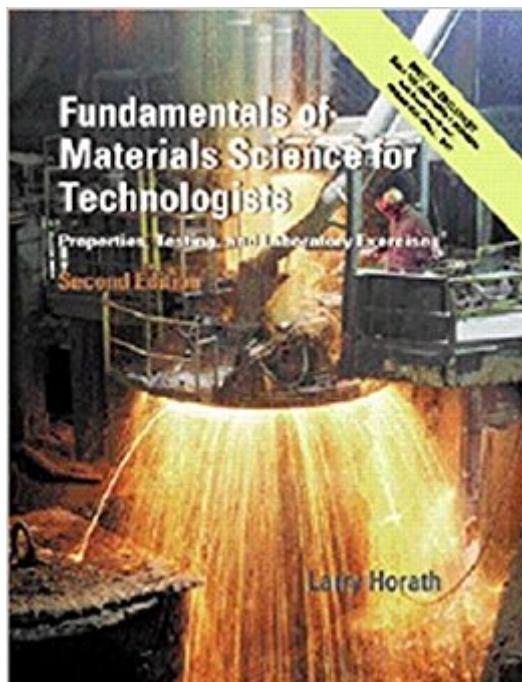


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# **Fundamentals Of Materials Science For Technologists: Properties, Testing, And Laboratory Exercises (2nd Edition)**



## Synopsis

For courses in Metallurgy, Materials Science, and Materials Testing in two- and four-year technology programs. Clearly written and with a practical, problem-solving approach, this introduction to the characteristics and testing of materials effectively combines the background students need in principles and theory with plenty of applications, to provide a solid understanding of the materials used in today's machines, devices, structures, and consumer products. Straightforward, non-mathematical coverage is aimed at answering the "why" and "how" questions of materials science and materials testing as they relate to all types of materials—concrete, wood, metals, and polymers—and is geared to helping students build a foundation from which they can learn to design and develop additional materials and conduct materials testing procedures on their own.

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## Customer Reviews

Clearly-written and with a practical, problem-solving approach, this new introduction to the characteristics and testing of materials effectively combines the background students need in principles and theory with plenty of applications, to give them a solid understanding of the materials used in today's machines, devices, structures, and consumer products. Straightforward, non-mathematical coverage is aimed at answering the "why

Preface This book and its accompanying multimedia CD-ROM are meant as an introduction for learning about the importance of materials and materials testing. This introduction is appropriate for two-year and four-year colleges and universities preparing future technicians, technologists, and engineers. The objective of this volume and its supplemental CD-ROM is to provide an awareness of the theory, manufacturing, processing, properties, applications, and common test procedures relating to common materials. These materials include the most common materials that a learner is most likely to encounter, including metals, plastics, glass and ceramics, wood and composites, fuels, and adhesives. Also included are the important advantages, disadvantages, and importance of these materials. The first section of this book is a background on the chemistry of materials, including their structure, properties, and selection. This includes their common properties that are important to material applications and how these properties may be created, reduced, and altered for various applications. The second section deals with the destructive and nondestructive evaluation of material properties, focusing on the mechanical properties. Further support for the learner is included on the CD-ROM. Each chapter contains an introduction, summary, and questions and problems. These are intended to assist learners in identifying the overall objectives of the chapter and section and reinforce their understanding and learning. Examples and photos are included as visual aids for the concepts presented. Laboratory assignments and reference materials have been included for hands-on learning in a supervised environment. Thus, it helps promote understanding of the "why" of studying materials and materials testing. It is beyond the scope of this book and CD-ROM to cover every material and test available. However, the intent of this material is to provide a basic understanding of the materials available and the tests made on these materials to identify their properties. There are endless combinations of materials available today. This book provides a discussion and examples of the most common. This information can then be applied in other situations and applications.

**ACKNOWLEDGMENTS** It is a daunting task to try and acknowledge everyone involved in this book and CD-ROM. However, I would like to take this opportunity to thank Bob and Lori Olson, multimedia development; Dan Arnold, photographer; Bethany, Elyse, and Rachael; and all of the various contributors to this work. I would also like to thank the following reviewers of the manuscript: Thomas R. Clark, Rock Valley College (IL), Dr. Greg E. Maksi, State Technical Institute at Memphis (TN), and Dr. Christian Unanwa, South Carolina State University. Thank you all for your patience, support, and understanding.

Fast delivery, Clearly written and with a practical, problem-solving approach, this introduction to the characteristics and testing of materials effectively combines the background students need in

principles and theory with plenty of applications, to provide a solid understanding of the materials used in today's machines, devices, structures, and consumer products. Straightforward, non-mathematical coverage is aimed at answering the "why" and "how" questions of materials science and materials testing as they relate to all types of materials--concrete, wood, metals, and polymers--and is geared to helping students build a foundation from which they can learn to design and develop additional materials and conduct materials testing procedures on their own.

Rich book and clear. I realy like the book. The book will give you what you need about fundamentals of materials science technology. It just more than I expacted.

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The book came very fast but the back bone of the book is broken. Book will last for one student no more. The book was in worse shape then stated.

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The book description says it comes with a CD-ROM, it is listed in the actual online description and on the book cover itself, but sent me 2 books and neither one had a CD-ROM enclosed!!!

The book is full of great information about materials used to make plastics and metal products.

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