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Materials Science and Engineering - William D. Callister - 2019-01-03


This sixth edition provides the fundamental basis on a level appropriate for college students who have completed their freshman calculus, chemistry, and physics courses. All subject matter is presented in a logical order, from the simple to the more complex. Each chapter builds on the content of previous ones. In order to expedite the learning process, the book provides: “Concept Check” questions to test conceptual understanding of End-of-chapter questions and problems to develop understanding of concepts and problem-solving skills End-of-book Answers to Selected Problems to check accuracy of work End-of-chapter summary tables containing key equations and symbols A Glossary for easy reference.


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Rare Earth Chemistry - Rainer Pettig - 2020-03-16

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Texture Analysis in Materials Science - H.-J. Bunge - 2013-05-28

The second edition was awarded Choice's Outstanding Academic Title award in 2003. This third edition includes new information on emerging topics and updated appendices, have been selected to increase the value of Materials for engineering as a permanent source of reference to readers throughout their professional lives.
Advanced Mechanics of Composite Materials and Structural Elements - Valery Vaziser - 2006-09-19

Advanced Mechanics of Composite Materials and Structural Elements analyzes contemporary theoretical models at the micro- and macro-levels of structural integrity. The book covers the development of micromechanical and structural models, experimental results, and optimization of composite material properties and structural component performance can be put to practical use by researchers and engineers. The third edition of this book consists of twelve chapters proposingly covering all structural levels of composite systems. Each chapter covers composite material micro- and macro-mechanical behavior, with emphasis on the aspects that are most critical to engineers designing composite structures in aerospace applications. Such an approach provides a more comprehensive understanding of composite materials' behavior."