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Building on the success of previous editions, this book continues to provide engineers with a strong understanding of the three primary types of materials and composites, as well as the relationships that exist between the structural elements of materials and their properties. The relationships among processing, structure, properties, and performance components for steels, glass-ceramics, polymer fibers, and silicon semiconductors are explored throughout the chapters. The discussion of the construction of crystallographic directions in hexagonal unit cells is expanded. At the end of each chapter, engineers will also find revised summaries and new equation summaries to reexamine key concepts.

Ralls' Introduction to Materials Science and Engineering is intended for students who want to learn about the nature of solid substances and, especially, for beginning engineering students who are making their first serious contact with the structure and properties of real solids. It represents, clearly and logically, the chemical and physical principles on which the properties of materials depend. The basic relationships introduced in general chemistry and physics courses are reviewed and extended in order to permit the student to relate the properties of ceramic, metallic, and polymeric solids to their internal structure and external environment.

Materials Science and Engineering, 9th Edition provides engineers with a strong understanding of the three primary types of materials and composites, as well as the relationships that exist between the structural elements of materials and their properties. The relationships among processing, structure, properties, and performance components for steels, glass – ceramics, polymer fibers, and silicon semiconductors are explored throughout the chapters.

Callister's Materials Science and Engineering: An Introduction promotes student understanding of the three primary types of materials (metals, ceramics, and polymers) and composites, as well as the relationships that exist between the structural elements of materials and their properties. The 10th edition provides new or updated coverage on a number of topics, including: the Materials Paradigm and Materials Selection Charts, 3D printing and additive manufacturing, biomaterials, recycling issues and the Hall effect.

¿ For students taking the Materials Science course . This book is also suitable for professionals seeking a guided inquiry approach to materials science. ¿ This unique book is designed to serve as an active learning tool that uses carefully selected information and guided inquiry questions. Guided inquiry helps readers reach true understanding of concepts as they develop greater ownership over the material presented. First, background information or data is presented. Then, concept invention questions lead the students to construct their own understanding of the fundamental concepts represented. Finally, application questions provide the reader with practice in solving problems using the concepts that they have derived from their own valid conclusions. ¿ ¿ 0133354733 / 9780133354737 Introduction to Materials Science and Engineering: A Guided Inquiry with Mastering Engineering with Pearson eText -- Access Card Package Package consists of: ¿ ¿ ¿ 0132136422 / 9780132136426 Introduction to Materials Science and Engineering: A Guided Inquiry 0133411443 / 9780133411447 MasteringEngineering with Pearson eText -- Access Card -- Introduction to Materials Science ¿

Phase diagrams are a MUST for materials scientists and engineers (MSEs). However, understanding phase diagrams is a difficult task for most MSEs. The

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audience of this book are young MSEs who start learning phase diagrams and are supposed to become specialists and those who were trained in fields other than materials science and engineering but are involved in research and/or development of materials after they are employed. Ternary phase diagrams presented in Chapter 4 are far more complex than binary phase diagrams. For this reason, ternary phase diagrams are nowadays less and less taught. However, in ceramics and semiconductors ternary phase diagrams become more and more important. Recent software provides necessary information to handle ternary phase diagrams. However, needless to say, without fundamental knowledge of ternary phase diagrams it is impossible to understand ternary phase diagrams correctly. In this book ternary phase diagrams are presented in a completely original way, with many diagrams illustrated in full color. In this book the essence of phase diagrams is presented in a user-friendly manner. This book is expected to be a Bible for MSEs.

An Introduction to Materials Engineering and Science for Chemical and Materials Engineers provides a solid background in materials engineering and science for chemical and materials engineering students. This book: Organizes topics on two levels; by engineering subject area and by materials class. Incorporates instructional objectives, active-learning principles, design-oriented problems, and web-based information and visualization to provide a unique educational experience for the student. Provides a foundation for understanding the structure and properties of materials such as ceramics/glass, polymers, composites, bio-materials, as well as metals and alloys. Takes an integrated approach to the subject, rather than a "metals first" approach.

Our civilization owes its most significant milestones to our use of materials. Metals gave us better agriculture and eventually the industrial revolution, silicon gave us the digital revolution, and we're just beginning to see what carbon nanotubes will give us. Taking a fresh, interdisciplinary look at the field, Introduction to Materials Science and Engineering emphasizes the importance of materials to engineering applications and builds the basis needed to select, modify, or create materials to meet specific criteria. The most outstanding feature of this text is the author's unique and engaging application-oriented approach. Beginning each chapter with a real-life example, an experiment, or several interesting facts, Yip-Wah Chung wields an expertly crafted treatment with which he entertains and motivates as much as he informs and educates. He links the discipline to the life sciences and includes modern developments such as nanomaterials, polymers, and thin films while working systematically from atomic bonding and analytical methods to crystalline, electronic, mechanical, and magnetic properties as well as ceramics, corrosion, and phase diagrams. Woven among the interesting examples, stories, and Chinese folk tales is a rigorous yet approachable mathematical and theoretical treatise. This makes Introduction to Materials Science and Engineering an effective tool for anyone needing a strong background in materials science for a broad variety of applications.

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