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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.

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.

An Introduction to Materials Engineering and Science forChemical and Materials Engineers provides a solid background inmaterials engineering and science for chemical and materialsengineering students. This book: Organizes topics on two levels; by engineering subject area andby materials class. Incorporates instructional objectives, active-learningprinciples, design-oriented problems, and web-based information andvisualization to provide a unique educational experience for thestudent. Provides a foundation for understanding the structure andproperties 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.

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