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and concise discussions of key concepts while also incorporating familiar terminology. The author treats the important properties 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. Throughout, the emphasis is placed on mechanical behavior and failure, including techniques that are employed to improve performance. • Introduction • Atomic Structure and Interatomic

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Fundamentals presents material at an appropriate level for both student comprehension and instructors who may not have a materials background.

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mechanical behavior
and failure,
including
techniques that are
employed to improve
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concise discussions
of key concepts
while also
incorporating
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Materials Science And

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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.
Materials Science and
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This text is designed for the introductory, one semester course in materials science or as a reference for professional engineers. It addresses what is essential for all engineers to know about the relationship between structure and properties as affected by processing in order to obtain all-important required performance. The organization of topics reflects this key interrelationship, and presents those topics in an order appropriate for students in an introductory course to build their own mental construct or hierarchy. Modern advances in polymers, ceramics, crystals, composites, semiconductors, etc. are discussed with an emphasis on applications in industry.

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An Introduction to

<p>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-</p>	<p>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</p>	<p>integrated approach to the subject, rather than a "metals first" approach.</p> <p>An Integrated Approach, 5E Binder Ready Version with WileyPlus Card Set</p> <p>Wiley Global Education</p> <p>This book emphasises the relationships between diverse types of material, and their importance and usage in engineering. It describes the structure property processing</p>
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performance relationships in various classes - metals, ceramics, polymers and composites. Each chapter discusses all these materials, so that students are reminded of bonding and structure and their influence on properties, processing and material performance. Within this core content the authors have inserted numerous	illustrations and worked examples, case studies, and questions at the end of each chapter, in order to encourage the reader to better understand and appreciate the subject. This title will serve as an excellent textbook for engineering students of diverse disciplines, as well as an introduction for design engineers in manufacturing industries engaged in	the selection of engineering materials. <u>Materials Science and Engineering</u> John Wiley & Sons Market_Desc: Materials Scientists, Engineers, and Students of Engineering. Special Features: · It synchronizes contents with the sequence of topics taught in materials science and engineering courses in most universities in South Asia, while retaining the subject material of the seventh edition..
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visualization of the concepts. Apart from serving as a text book for the basic course in materials science and engineering in engineering colleges, the book covers topics that can be used to advantage even in specialized courses pertaining to engineering materials. The book can be consulted as a good reference source for important properties of a wide variety of engineering materials, which benefits a wide spectrum of future

engineers and scientists.
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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.
An Introduction Anshan Pub

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 including X-ray additive manufacturing, diffraction, X-ray biomaterials, recycling small-angle issues and the Hall scattering, effect.

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techniques Presents	approach to the	materials based
practical results	sequence of topics	upon their
on various carbon	- one specific	characteristics.
materials,	structure,	Using clear,
including fault	characteristic, or	concise terminology
results, which will	property type is	that is familiar to
help readers	covered in turn for	students,
understand the	all three basic	Fundamentals
optimum conditions	material types:	presents material
for the	metals, ceramics,	at an appropriate
characterization of	and polymeric	level for both
carbon materials	materials. This	student
<i>An Introduction</i>	presentation	comprehension and

instructors who may not have a materials background. This presentation permits the early introduction of non-metals and supports the engineer's role in choosing materials based upon their characteristics. Using clear, concise terminology that is familiar to students, Fundamentals presents material at an appropriate level for both student comprehension and

material types: metals, ceramics, and polymeric materials. background.

instructors who may not have a materials background.

Materials Science and Engineering of Carbon

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Fundamentals of Materials Science and Engineering takes an integrated approach to the sequence of topics - one specific structure, characteristic, or property type is covered in turn for all three basic