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student Luis Sotelo is
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About Materials Science and
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Materials Science and
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concerned with the study of
the structure, properties
and applications of
materials. The foundations
of materials science and
engineering are the basic
sciences of physics,
chemistry, and mathematics.

Overview | Materials Science
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science and engineering, is
the design and discovery of
new materials, particularly
solids. The intellectual
origins of materials science
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Presents practical results on various carbon materials, including fault results, which will help readers understand the optimum conditions for the characterization of carbon materials

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Milton Ohring's Engineering Materials Science integrates the scientific nature and modern applications of all classes of engineering materials. This comprehensive, introductory textbook will provide undergraduate engineering students with the fundamental background needed to understand the science of structure-property relationships, as well as address the engineering concerns of materials selection in design, processing materials into useful products, and how material degrade and fail in

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service. Specific topics include: physical and electronic structure; thermodynamics and kinetics; processing; mechanical, electrical, magnetic, and optical properties; degradation; and failure and reliability. The book offers superior coverage of electrical, optical, and magnetic materials than competing text. The author has taught introductory courses in material science and engineering both in academia and industry (AT&T Bell Laboratories) and has also written the well-received book, *The Material Science of Thin Films* (Academic Press).

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and the Indian Institute of Metals (1999) and the Materials Research Society of Indian Medal (1999) and recently Distinguished Educator of the Year (2009). About The Book: Building on the success of previous edition, 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. With improved and more interactive learning modules, this textbook provides a better visualization of the

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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.

Materials informatics: a 'hot topic' area in materials science, aims to combine traditionally bio-

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led informatics with computational methodologies, supporting more efficient research by identifying strategies for time- and cost-effective analysis. The discovery and maturation of new materials has been outpaced by the thicket of data created by new combinatorial and high throughput analytical techniques. The elaboration of this "quantitative avalanche"—and the resulting complex, multi-factor analyses required to understand it—means that interest, investment, and research are revisiting informatics approaches as a solution. This work, from

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Krishna Rajan, the leading expert of the informatics approach to materials, seeks to break down the barriers between data management, quality standards, data mining, exchange, and storage and analysis, as a means of accelerating scientific research in materials science. This solutions-based reference synthesizes foundational physical, statistical, and mathematical content with emerging experimental and real-world applications, for interdisciplinary researchers and those new to the field. Identifies and analyzes interdisciplinary strategies (including

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combinatorial and high throughput approaches) that accelerate materials development cycle times and reduces associated costs
Mathematical and computational analysis aids formulation of new structure-property correlations among large, heterogeneous, and distributed data sets
Practical examples, computational tools, and software analysis benefits rapid identification of critical data and analysis of theoretical needs for future problems

; For students taking the Materials Science course .
This book is also suitable

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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

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This well-established and widely adopted book, now in its Sixth Edition, provides a thorough analysis of the subject in an easy-to-read style. It analyzes, systematically and logically, the basic concepts and their applications to enable the students to comprehend the subject with ease. The book begins with a clear exposition of the background topics in chemical equilibrium, kinetics, atomic structure and chemical bonding. Then follows a detailed discussion on the structure of solids, crystal

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Introduction, phase diagrams, solid-state

diffusion and phase transformations. This

provides a deep insight into the structural control necessary for optimizing the various properties of materials. The mechanical properties covered include elastic, anelastic and viscoelastic behaviour, plastic deformation, creep and fracture phenomena. The next four chapters are devoted to a detailed description of electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on

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'Nanomaterials' is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches of engineering (B.E./B.Tech.) and postgraduate students of

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Physics, Chemistry and
Materials Science. KEY
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FEATURES • All relevant units and constants listed at the beginning of each chapter • A note on SI units and a full table of conversion factors at the beginning • A new chapter on 'Nanomaterials' describing the state-of-art information • Examples with solutions and problems with answers • About 350 multiple choice questions with answers

Callister's Materials Science and Engineering: An Introduction promotes student understanding of the three primary types of materials (metals, ceramics,

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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.

Solutions

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and interface probing useful
to metallurgical
applications. It discusses
the Auger electron
spectroscopy and electron
spectroscopy for chemical
analysis. It addresses the
means to determine the
chemistry of the surface.
Some of the topics covered
in the book are the exo-
electron emission; positron
annihilation; extended x-ray
absorption fine structure;
high resolution electron
microscopy; uniaxial
monotonic deformation-
induced dislocation
substructure; and analytical
electron microscopy. The

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mechanistic basis for exoelectron spectroscopy is covered. The correlation of fatigue and photoyield are discussed. The text describes the tribostimulated emission. A study of the quantitative measurement of fatigue damage is presented. A chapter is devoted to the fracture of oxide films on aluminium. Another section focuses on the positron annihilation experimental details and the creep-induced dislocation substructure. The book can provide useful information to scientists, engineers, students, and researchers.

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