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The strength of the ebook is in its balanced presentation of concepts in the science of materials (basic knowledge) and engineering of materials (applied knowledge).

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of metal physics to formulate basic
theory applicable to other
engineering materials, such as
ceramics and polymers. Written for
engineering students and working

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engineers with little previous knowledge of solid-state physics, this textbook enables the reader to study more specialized and fundamental literature of materials science. Dozens of illustrative photographs, many of them transmission electron microscopy images, plus line drawings, aid developing a firm appreciation of this complex topic. Hard-to-grasp terms such as "textures" are lucidly explained - not only the phenomenon itself, but also its consequences for the material properties. This excellent book makes materials science more transparent.

Smith/Hashemi's Foundations of Materials Science and Engineering, 5/e provides an eminently readable and understandable overview of engineering materials for

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undergraduate students. This edition offers a fully revised chemistry chapter and a new chapter on biomaterials as well as a new taxonomy for homework problems that will help students and instructors gauge and set goals for student learning. Through concise explanations, numerous worked-out examples, a wealth of illustrations & photos, and a brand new set of online resources, the new edition provides the most student-friendly introduction to the science & engineering of materials. The extensive media package available with the text provides Virtual Labs, tutorials, and animations, as well as image files, case studies, FE Exam review questions, and a solutions manual and lecture PowerPoint files for instructors.

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To prepare materials engineers and
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Sixth Edition is designed to present
diverse top-ics in the field with
appropriate breadth and depth. The
strength of the book is in its balanced
presentation of concepts in science of
materials (basic knowledge) and

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Engineering of materials (applied knowledge). The basic and applied concepts are integrated through concise textual explanations, relevant and stimulating imagery, detailed sample problems, electronic supplements, and homework problems. This textbook is therefore suitable for both an introductory course in materials at the sophomore level and a more advanced (junior/senior level) second course in materials science and engineering. The extensive media package available with the text provides tutorials and animations, as well as image files, case studies, FE Exam review questions, and a solutions manual and lecture PowerPoint files for instructors.

For engineering students taking their

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first course in materials science, this expanded text now includes design-oriented problems, case studies, and an online learning center featuring Powerpoint slides, glossary and more. (Midwest).

This publication is based upon lectures given during a well-received course on physical metallurgy and originally intended for students specializing in fields related to metallic materials. But, as the author points out, metallic materials are the most widely investigated group of materials and their study therefore gives a good basis for understanding how other materials can be made to reveal interrelationships between their structures and properties; especially with regard to those properties associated with strain.

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Similar types of rule can then be applied to other materials, in spite of their apparent differences.

Foundations of Biomaterials Engineering provides readers with an introduction to biomaterials engineering. With a strong focus on the essentials of materials science, the book also examines the physiological mechanisms of defense and repair, tissue engineering and the basics of biotechnology. An introductory section covers materials, their properties, processing and engineering methods. The second section, dedicated to Biomaterials and Biocompatibility, deals with issues related to the use and application of the various classes of materials in the biomedical field, particularly within the human body,

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the mechanisms underlying the physiological processes of defense and repair, and the phenomenology of the interaction between the biological environment and biomaterials. The last part of the book addresses two areas of growing importance: Tissue Engineering and Biotechnology. This book is a valuable resource for researchers, students and all those looking for a comprehensive and concise introduction to biomaterials engineering. Offers a one-stop source for information on the essentials of biomaterials and engineering Useful as an introduction or advanced reference on recent advances in the biomaterials field Developed by experienced international authors, incorporating feedback and input from existing customers

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Manufacturing industry is becoming ever more time-conscious with regard to the global economy, and the need for rapid prototyping and small production batches is increasing. These trends have placed a premium on the use of new and advanced technologies for quickly turning raw materials into usable goods; with no time being required for tooling. The need for advanced processing technologies is particularly evident when machining advanced materials, such as ceramics, composites and thermo-sensitive materials that have wide application but are considered to be "difficult-to-machine" using conventional machining technologies such as turning and milling. Abrasive

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waterjet (AWJ) machining has been found to be one of the advanced technologies that meet these processing requirements; due to its distinct advantages over other machining technologies.

The goal of this Volume "Conceptual Foundations of Materials: A standard model for ground- and excited-state properties" is to present the fundamentals of electronic structure theory that are central to the understanding and prediction of materials phenomena and properties. The emphasis is on foundations and concepts. The Sections are designed to offer a broad and comprehensive perspective of the field. They cover the basic aspects of modern electronic structure approaches and highlight their applications to the

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structural (ground state, vibrational, dynamic and thermodynamic, etc.) and electronic (spectroscopic, dielectric, magnetic, transport, etc.) properties of real materials including solids, clusters, liquids, and nanostructure materials. This framework also forms a basis for studies of emergent properties arising from low-energy electron correlations and interactions such as the quantum Hall effects, superconductivity, and other cooperative phenomena. Although some of the basics and models for solids were developed in the early part of the last century by figures such as Bloch, Pauli, Fermi, and Slater, the field of electronic structure theory went through a phenomenal growth during the past two decades, leading to new concepts, understandings,

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and predictive capabilities for determining the ground- and excited-state properties of real, complex materials from first principles. For example, theory can now be used to predict the existence and properties of materials not previously realized in nature or in the laboratory. Computer experiments can be performed to examine the behavior of individual atoms in a particular process, to analyze the importance of different mechanisms, or just to see what happen if one varies the interactions and parameters in the simulation. Also, with ab initio calculations, one can determine from first principles important interaction parameters which are needed in model studies of complex processes or highly correlated systems. Each time a new material or a novel form of a material

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is discovered, electronic structure theory inevitably plays a fundamental role in unraveling its properties.

Provides the foundations of the field of condensed matter physics An excellent supplementary text for classes on condensed matter physics/solid state physics Volume covers current work at the forefront Presentations are accessible to nonspecialists, with focus on underlying fundamentals

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