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2.1 Cite the difference between atomic mass and atomic weight. Solution Atomic mass is the mass of an individual atom, whereas atomic weight is the average (weighted) of the atomic masses of an atom's naturally occurring isotopes. 2.2 Silicon has three ...

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4.2 For some hypothetical metal, the equilibrium number of vacancies at 900 C is  $2.3 \times 10^{25} \text{ m}^{-3}$ . If the density and atomic weight of this metal are  $7.40 \text{ g/cm}^3$  and  $85.5 \text{ g/mol}$ , respectively, calculate the fraction of vacancies for this metal at 900 C. Solution This problem is solved using two steps: (1) calculate the total number of lattice sites in silver,  $N$ , using

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2.2 Silicon has three naturally occurring isotopes: 92.23% of  $^{28}\text{Si}$ , with an atomic weight of 27.9769 amu, 4.68% of  $^{29}\text{Si}$ , with an atomic weight of 28.9765 amu, and 3.09% of  $^{30}\text{Si}$ , with an atomic ...

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Bill Callister continues his dedication to student understanding by writing in a clear and concise manner, using terminology that is familiar and not beyond student comprehension. Topics are organized and explained in an approachable manner, so that even instructors who do not have a strong materials background (i.e., those from mechanical, civil, chemical, or electrical engineering, or chemistry departments) can teach from this, already successful, text.

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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.

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 material types: metals, ceramics, and polymeric materials. 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 instructors who may not have a materials background.

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.

This book covers state-of-the-art techniques commonly used in modern materials characterization. Two important aspects of characterization, materials structures and chemical analysis, are included. Widely used techniques, such as metallography (light microscopy), X-ray diffraction, transmission and scanning electron microscopy, are described. In addition, the book introduces advanced techniques, including scanning probe microscopy. The second half of the book accordingly presents techniques such as X-ray energy dispersive spectroscopy (commonly equipped in the scanning electron microscope), fluorescence X-ray spectroscopy, and popular surface analysis techniques (XPS and SIMS). Finally, vibrational spectroscopy (FTIR and Raman) and thermal analysis are also covered.

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Ceramic Materials: Science and Engineering is an up-to-date treatment of ceramic science, engineering, and applications in a single, comprehensive text. Building on a foundation of crystal structures, phase equilibria, defects, and the mechanical properties of ceramic materials, students are shown how these materials are processed for a wide diversity of applications in today's society. Concepts such as how and why ions move, how ceramics interact with light and magnetic fields, and how they respond to temperature changes are discussed in the context of their applications. References to the art and history of ceramics are included throughout the text, and a chapter is devoted to ceramics as gemstones. This course-tested text now includes expanded chapters on the role of ceramics in industry and their impact on the environment as well as a chapter devoted to applications of ceramic materials in clean energy technologies. Also new are expanded sets of text-specific homework problems and other resources for instructors. The revised and updated Second Edition is further enhanced with color illustrations throughout the text.

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