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This course focuses on the fundamentals of structure, energetics, and bonding that underpin materials science. It is the introductory lecture class for sophomore students in Materials Science and Engineering, taken with 3.014 and 3.016 to create a unified introduction to the subject. Topics include: an introduction to thermodynamic functions and laws governing equilibrium properties, relating macroscopic behavior to atomistic and molecular models of materials; the role of electronic bonding ...

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Fundamentals of Materials Science and Engineering: An ...

Available August 2005 Smith/Hashemi's Foundations of Materials Science and Engineering, 4/e provides an eminently readable and understandable overview of engineering materials for undergraduate students. Chapters have been updated to reflect new topics such as nanotechnology and biotechnology, and materials types being used in industry.

PDF Books Loose Leaf For Foundations Of Materials Science ...

Fundamentals of Materials Science and Engineering: An Integrated Approach, 5th Edition. William D. Callister Jr., David G. Rethwisch. Essentials of Modern Materials Science and Engineering. James A. Newell. Physics of Functional Materials. Hasse Fredriksson, Ulla Åkerlind.

Materials Science Engineering

Callister and Rethwisch's Fundamentals of Materials Science and Engineering 4th Edition continues to be the go-to text for basic materials science concepts. Written in a clear and concise way, this text will help you to understand the fundamentals of structures and property types as they relate to the three basic material types: metals, ceramics, and polymeric materials.

Fundamentals of Materials Science and Engineering, 4th ...

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