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Fundamentals Of Materials Science The

This book offers a strong introduction to fundamental concepts on the basis of materials science. It conveys the central issue of materials science, distinguishing it from merely solid state physics and solid state chemistry, namely to develop models that provide the relation between the microstructure and the properties.

Fundamentals of Materials Science - The Microstructure ...

The interdisciplinary field of materials science, also commonly termed materials science and engineering, is the design and discovery of new materials, particularly solids. The intellectual origins of materials science stem from the Enlightenment, when researchers began to use analytical thinking from chemistry, physics, and engineering to understand ancient, phenomenological observations in ...

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The science that studies how biological materials interact and deform is called biomechanics. This section introduces concepts of elastic, plastic, and viscoelastic deformation and mechanical quantities including force, stress, strain, strength, toughness, hardness, friction, and wear in terms of performance of materials in the oral environment.

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3.012 Fundamentals of Materials Science, Fall 2003

Structure - or the arrangement of materials' internal components - determines virtually everything about a material: its properties, its potential applications, and its performance within those applications.

Structure of Materials, Part 1: Fundamentals of Materials ...

Fundamentals of Materials Science and Engineering: An Integrated Approach William D. Callister, Jr. , David G. Rethwisch John Wiley & Sons , 2012 - Science - 910 pages

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Callister and Rethwisch's Fundamentals of Materials Science and Engineering 4th Edition continues to take the integrated approach to the organization of topics. That is, one specific structure, characteristic, or property type at a time is discussed for all three basic material types: metals, ceramics, and polymeric materials.

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This book offers a strong introduction to fundamental concepts on the basis of materials science. It conveys the central issue of materials science, distinguishing it from merely solid state physics and solid state chemistry, namely to develop models that provide the relation between the microstructure and the properties.

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The relatively good deformability of metals (also referred to as ductility) compared to other materials is a significant feature. The reason for this lies in the special metallic bond. The good formability is the basis for many manufacturing processes such as bending, deep drawing, forging, etc. Not every metal can be deformed equally well.

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