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E. McHenry. Cambridge
University Press, Aug
30, 2007 - Science -

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844 pages. 2 Reviews.

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This section will begin with an introduction to the four common types of engineering materials. The structure of materials at the atomic level will then be considered,

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along with some atomic level features that give materials their characteristic properties.

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diffraction, and applies

these concepts to a

large range of

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illustrations make it well suited for an advanced undergraduate/introductory graduate class in materials science, physics, or chemistry.

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classes of materials.

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properties of materials

- A simple introduction to amorphous and

- crystalline structure

- was presented • This

- was followed by some

- basic definitions of

- stress, strain &

- mechanical properties

- The mechanical

- properties of soft and

- hard tissue were then

- introduced • Balance of

- mechanical properties

- is key for design

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Principles : Crandall,

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Sections 1.1-1.3.

Problem M1 Solution

M1 : M2: Equilibrium of

a Particle, System of

Particles (Free-body

Diagram)

Materials/Structures

| Unified Engineering

I, II, III ...

This course focuses on

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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.

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Introduction to ...

The classification of materials is based on the atomic structures and on the nature of bonds: metals and their alloys (metallic bonding), organic polymers (covalent bonding and secondary bonding), and ceramics (ionic bonding and covalent bonding). The chapter describes that the ceramic materials are especially known for their fireproof

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