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- This class presents an introduction to the structure and 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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Materials/Structures. LEC # TOPICS CONCEPT QUESTIONS MUDDY POINTS READINGS ASSIGNMENTS / SOLUTIONS; Block 1 - Statics: M1: Introduction: Why Materials and Structures? – 3 Great Principles : Crandall, Dahl, and Lardner. Sections 1.1-1.3. Problem M1 Solution M1 : M2: Equilibrium of a Particle, System of Particles (Free-body Diagram)

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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.

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De Graef, Marc; McHenry, Michael E. Structure of Materials: An Introduction to Crystallography, Diffraction and Symmetry.

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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).

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The chapter describes that the ceramic materials are especially known for their fireproof character.

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