

Material Science

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Chapter 2. Atomic Structure, Interatomic Bonding and Structure of Crystalline Solids

Learning objectives:

- To get an idea about composition of an atom, and to know about different bonds in solids, and be able to distinguish between them.
- Shall be able to find atomic density of a material.
- To understand the concepts of unit cell, crystal structure.
- Be able to construct different directions and planes in crystals with proper notation.
- Understand the concept of anisotropy.
- Elastic nature of composites.
- Structure and properties of Polymers and Ceramics.