

- The Basis of Materials Science
- The Smallest Building Blocks
- The Simplest Atom
- Atoms with Many Electrons
- Molecules and Interatomic Bonding
- The Internal Structure of Crystals
- Thermal Properties
- Crystal Defects
- Mechanical Properties
- Phase Diagrams and Microstructure of Alloys
- Ceramics
- Polymers and Plastics
- Multiphase Materials and Composites
- Electrical Conduction in Metals
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- Magnetic Materials
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