

# Engineering Physics I

*Lecture Notes, Study Materials and Important questions answers*

## Subject : Engineering Physics I

### CRYSTAL PHYSICS

1. Crystallography - [Answer \(click here\)](#)
2. Lattice Parameters or Unit Cell Parameters - [Answer \(click here\)](#)
3. Bravais Space Lattice - [Answer \(click here\)](#)
4. Lattice Planes - [Answer \(click here\)](#)
5. Miller Indices - Procedure for finding and Important Features - [Answer \(click here\)](#)
6. Separation between Lattice Planes in a cubic Crystal - [Answer \(click here\)](#)
7. Characteristics of the Unit Cell - [Answer \(click here\)](#)
8. Body centered cubic(BCC) Structure - [Answer \(click here\)](#)
9. Face centered cubic (FCC) Structure - [Answer \(click here\)](#)
10. Hexagonal Closely Packed Structure(HCP) - [Answer \(click here\)](#)
11. Properties of some Crystal Structure - Sodium chloride, Diamond cubic - [Answer \(click here\)](#)
12. Crystal growth - Solidification and Crystallization - [Answer \(click here\)](#)
13. Czochralski technique - [Answer \(click here\)](#)
14. Bridgeman Technique - [Answer \(click here\)](#)
15. Low temperature solution growth : Slow cooling and Slow evaporation method - [Answer \(click here\)](#)
16. Epitaxial growth - [Answer \(click here\)](#)

### PROPERTIES OF MATTER AND THERMAL PHYSICS

1. Types of Stress and Strain - [Answer \(click here\)](#)
2. Hooke's Law - [Answer \(click here\)](#)
3. Types of Moduli of Elasticity - [Answer \(click here\)](#)
4. Factors affecting Elasticity - [Answer \(click here\)](#)
5. Bending of Beams - [Answer \(click here\)](#)
6. Modes of Heat Transfer - [Answer \(click here\)](#)
7. Lee's Disc Method for Bad Conductors - [Answer \(click here\)](#)

# Engineering Physics 1 St Semester Notes

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