

Solid State Physics

(PhD entrance exam topics)

1. Structure of solids, single and real crystals, amorphous materials
2. Band structure of solids, conductors, semiconductors and dielectrics
3. Dielectrical properties of materials, polarization
4. Magnetic properties, dia-, para-, ferro magnets
5. Optical properties of solids, The process of absorption
6. p-n transitions and semiconductor-based equipments

Suggested readings:

C. Kittel: Introduction to Solid State Physics John Wiley and Sons, 1981