

# NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Basic Courses (Semester 1 and 2) - Materials Science

Subject Co-ordinator - Prof. S.K. Gupta

Co-ordinating Institute - IIT - Delhi

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction  
Lecture 2 - Internal Energy Enthalpy  
Lecture 3 - Crystal Geometry  
Lecture 4 - Crystal Geometry  
Lecture 5 - Crystal Geometry  
Lecture 6 - Crystal Structure  
Lecture 7 - Close Packing of Spheres of Equal Size  
Lecture 8 - Structure of Solid Materials  
Lecture 9 - Non Crystalline Solids  
Lecture 10 - Polymers (Continued)  
Lecture 11 - Crystal Imperfections  
Lecture 12 - Crystal Imperfections  
Lecture 13 - Crystal Imperfections  
Lecture 14 - Crystal Imperfections  
Lecture 15 - Crystal Imperfections  
Lecture 16 - Phase Diagrams  
Lecture 17 - Phase Diagrams  
Lecture 18 - Phase Diagrams  
Lecture 19 - Diffusion in Solids  
Lecture 20 - Diffusion in Solids  
Lecture 21 - Phase Transformations  
Lecture 22 - Phase Transformations  
Lecture 23 - Phase Transformations  
Lecture 24 - Transformations in Steels  
Lecture 25 - Phase Transformations; Precipitation Hardening  
Lecture 26 - Mechanical Behaviour of Materials  
Lecture 27 - Plastic Deformation  
Lecture 28 - Plastic Deformation  
Lecture 29 - Plastic Deformation

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## NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

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- Lecture 30 - Strengthening Mechanisms Creep
- Lecture 31 - Fracture
- Lecture 32 - Conductors and Resistors
- Lecture 33 - Conductors and Resistors
- Lecture 34 - Superconductors
- Lecture 35 - Superconductors
- Lecture 36 - Semiconductors