

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

NPTEL Video Course - Metallurgy and Material Science - Principles of Physical Metallurgy

Subject Co-ordinator - Prof. R.N. Ghosh

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Atomic Bond and Crystal Structure
- Lecture 3 - Atomic Bond and Crystal Structure (Continued...1)
- Lecture 4 - Atomic Bond and Crystal Structure (Continued...2)
- Lecture 5 - Experimental Tools & Techniques
- Lecture 6 - Experimental Tools & Techniques (Continued...)
- Lecture 7 - Solidification of Pure Metal
- Lecture 8 - Plastic Deformation of Pure Metal
- Lecture 9 - Plastic Deformation of Pure Metal (Continued...)
- Lecture 10 - Crystal Defects in Metals
- Lecture 11 - Crystal Defects in Metals (Continued...1)
- Lecture 12 - Crystal Defects in Metals (Continued...2)
- Lecture 13 - Crystal Defects in Metals (Continued...3)
- Lecture 14 - Crystal Defects in Metals (Continued...4)
- Lecture 15 - Diffusion in Solids
- Lecture 16 - Diffusion in Solids (Continued...)
- Lecture 17 - Numerical Examples in Diffusion
- Lecture 18 - Solidification of Binary Alloys
- Lecture 19 - Solidification of Binary Alloys (Continued...1)
- Lecture 20 - Solidification of Binary Alloys (Continued...2)
- Lecture 21 - Solidification of Binary Alloys (Continued...3)
- Lecture 22 - Solidification of Binary Alloys (Continued...4)
- Lecture 23 - Iron-Carbon Phase Diagram
- Lecture 24 - Iron-Carbon Phase Diagram (Continued...)
- Lecture 25 - Ternary Phase Diagram
- Lecture 26 - Common Binary Alloys
- Lecture 27 - Metal Working
- Lecture 28 - Metal Working
- Lecture 29 - Precipitation for Solid Solution

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- Lecture 30 - Precipitation for Solid Solution (Continued...)
- Lecture 31 - Heat Treatment of Steel
- Lecture 32 - Heat Treatment of Steel (Continued...1)
- Lecture 33 - Heat Treatment of Steel (Continued...2)
- Lecture 34 - Heat Treatment of Steel (Continued...3)
- Lecture 35 - Heat Treatment of Steel (Continued...4)
- Lecture 36 - Heat Treatment of Steel (Continued...5)
- Lecture 37 - Surface Hardening
- Lecture 38 - Structural Steel
- Lecture 39 - Structural Steel (Continued...)
- Lecture 40 - Ultra High Strength Steel
- Lecture 41 - Preferred Orientation
- Lecture 42 - Metal Joining