

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

NPTEL Video Course - Metallurgy and Material Science - NOC:Nanotechnology, Science and Applications

Subject Co-ordinator - Dr. Prathap Haridoss

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Nanotechnology Science and Applications - Introduction
- Lecture 2 - Nanotechnology
- Lecture 3 - Discussion on Feynman's talk on Nanotechnology - Part I
- Lecture 4 - Discussion on Feynman's talk on Nanotechnology - Part II
- Lecture 5 - Impact of the nanoscale on thermodynamic considerations
- Lecture 6 - Phase Diagrams and Stable Phases
- Lecture 7 - Calorimetry
- Lecture 8 - Zirconia - ZrO_2
- Lecture 9 - Experimentally Investigating the Hall-Petch relationship
- Lecture 10 - Impact of the Nanoscale on the Hall-Petch Relationship
- Lecture 11 - Impact of the nanoscale on Mechanical properties
- Lecture 12 - Superplasticity and the Nanoscale
- Lecture 13 - Superplasticity and the Nanoscale
- Lecture 14 - Severe Plastic Deformation and the nanoscale
- Lecture 15 - An approach to prepare bulk nanostructures
- Lecture 16 - Nanosized Ferroelectrics
- Lecture 17 - Impact of the nanoscale on optical properties
- Lecture 18 - Experimental approach to study impact of the nanoscale on optical properties
- Lecture 19 - Impact of the nanoscale on optical properties
- Lecture 20 - Nanocomposites
- Lecture 21 - Effect of Nanoscale on Magnetic Properties
- Lecture 22 - Effect of Nanostructure on Damping Properties
- Lecture 23 - Carbon
- Lecture 24 - Carbon Nanotubes
- Lecture 25 - Graphene, a 2D nanomaterials

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