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

```
NPTEL Video Course - Nanotechnology - Nanostructures and Nanomaterials: Characterization and Properties
Subject Co-ordinator - Dr. Anandh Subramaniam, Dr. Kantesh Balani
Co-ordinating Institute - IIT - Kanpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Nanomaterials
Lecture 2 - Introduction to Nanomaterials
Lecture 3 - Introduction to Nanomaterials
Lecture 4 - Introduction to Nanomaterials
Lecture 5 - Introduction to Nanomaterials
Lecture 6 - Introduction to Nanomaterials
Lecture 7 - Introduction to Nanomaterials
Lecture 8 - Introduction to Nanomaterials
Lecture 9 - Introduction to Nanomaterials
Lecture 10 - Introduction to Nanomaterials
Lecture 11 - Surface Effects and Physical properties of nanomaterials
Lecture 12 - Surface Effects and Physical properties of nanomaterials
Lecture 13 - Surface Effects and Physical properties of nanomaterials
Lecture 14 - Surface Effects and Physical properties of nanomaterials
Lecture 15 - Surface Effects and Physical properties of nanomaterials
Lecture 16 - Defect Structure & Mechanical Behaviour of Nanomaterials
Lecture 17 - Defect Structure & Mechanical Behaviour of Nanomaterials
Lecture 18 - Defect Structure & Mechanical Behaviour of Nanomaterials
Lecture 19 - Defect Structure & Mechanical Behaviour of Nanomaterials
Lecture 20 - Defect Structure & Mechanical Behaviour of Nanomaterials
Lecture 21 - Electrical, Magnetic and Optical Properties of Nanomaterials
Lecture 22 - Electrical, Magnetic and Optical Properties of Nanomaterials
Lecture 23 - Electrical, Magnetic and Optical Properties of Nanomaterials
Lecture 24 - Electrical, Magnetic and Optical Properties of Nanomaterials
Lecture 25 - Electrical, Magnetic and Optical Properties of Nanomaterials
Lecture 26 - Atomic Bonding
Lecture 27 - Overview of Nano structures and Nano materials
Lecture 28 - Carbon Nanostructures
Lecture 29 - Multi-Scale Hierarchy
```

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

Lecture 30 - Self Assembly Lecture 31 - Nanomaterials in Nature Lecture 32 - Surfaces and Interfaces Lecture 33 - Non-wetting Lecture 34 - Nanomaterials Science and Nanomanufacturing Lecture 35 - Surface Adsorption Isotherms (Langmuir/Bet) Lecture 36 - Reciprocal Lattice Lecture 37 - Transmission Electron Microscopy Lecture 38 - Transmission Electron Microscopy Lecture 39 - Auger Electron Spectroscopy Lecture 40 - X-Ray Photoelectron Spectroscopy (XPS) Lecture 41 - Electron Energy Loss Spectroscopy (EELS) Lecture 42 - Deformation Behavior of Nanomaterials Lecture 43 - Fracture and Creep Lecture 44 - Nanomechanics Lecture 45 - Nanotribology