

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

NPTEL Video Course - Chemistry and Biochemistry - Chemistry of Materials

Subject Co-ordinator - Prof. S. Sundar Manoharan

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Introduction to Materials Chemistry
- Lecture 2 - Preparative routes
- Lecture 3 - Preparative routes
- Lecture 4 - Preparative routes
- Lecture 5 - Preparative routes
- Lecture 6 - Preparative routes
- Lecture 7 - Preparative routes
- Lecture 8 - Preparative routes
- Lecture 9 - Preparative routes
- Lecture 10 - Molecular Beam Epitaxy
- Lecture 11 - Pulsed Laser Deposition
- Lecture 12 - Pulsed Electron Deposition
- Lecture 13 - Sputtering deposited thin films and applications
- Lecture 14 - Crystal growth-Single crystals.
- Lecture 15 - Applications of X-ray diffraction
- Lecture 16 - Applications of X-ray Photoelectron spectroscopy
- Lecture 17 - Applications of X-ray Absorption spectroscopy
- Lecture 18 - Applications of Thermal analysis techniques
- Lecture 19 - Applications of Scanning Tunneling microscopy
- Lecture 20 - Applications of Electron Microscopy
- Lecture 21 - Case Study of ZnO
- Lecture 22 - Magnetic materials - I
- Lecture 23 - Magnetic Materials - II
- Lecture 24 - Magnetic Materials - III & Related Phenomena
- Lecture 25 - Shape Memory Materials
- Lecture 26 - Spintronic Materials - I Colossal Magnetoresistive Oxides
- Lecture 27 - Spintronic Materials - II Giant Magnetoresistive Materials
- Lecture 28 - Spintronic Materials - III Tunneling Magnetoresistive Materials
- Lecture 29 - Spintronic Materials - IV Dilute Magnetic Semiconductors

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- Lecture 30 - High Tc Superconductors
- Lecture 31 - The New Carbon family - I - Fullerenes and Nanotubes
- Lecture 32 - The New Carbon family - II - Graphene
- Lecture 33 - Optoelectronic Materials - I - OLEDs
- Lecture 34 - Optoelectronic Materials - II - OLEDs
- Lecture 35 - Inorganic Phosphors - I
- Lecture 36 - Inorganic Phosphors - II
- Lecture 37 - Phosphor Materials
- Lecture 38 - Solar Cells
- Lecture 39 - Interview with C N R Rao and Interview with E C Subba Rao
- Lecture 40 - Perceptions & Projections