

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Transition Metal Chemistry

Subject Co-ordinator - Prof. M S Balakrishna

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - History of Periodic Table - 1
- Lecture 2 - History of Periodic Table - 2
- Lecture 3 - History of Periodic Table - 3
- Lecture 4 - Introduction to Transition elements - 1
- Lecture 5 - Introduction to Transition elements - 2
- Lecture 6 - Introduction to Transition elements - 3
- Lecture 7 - Introduction to Transition elements - 4
- Lecture 8 - Coordination Theory
- Lecture 9 - Werner's Coordination Theory
- Lecture 10 - Early Bonding Concepts
- Lecture 11 - Valence Bond Theory (VBT) - 1
- Lecture 12 - Valence Bond Theory (VBT) - 2
- Lecture 13 - Background To Crystal Field Theory (CFT)
- Lecture 14 - Crystal Field Theory (CFT) Jahn-Teller Theorem
- Lecture 15 - Crystal Field Theory (CFT) - 1
- Lecture 16 - Crystal Field Theory (CFT) - 2
- Lecture 17 - Ligand Field Theory (LFT) - 1
- Lecture 18 - Ligand Field Theory (LFT) - 2
- Lecture 19 - Ligand Field Theory (LFT) - 3
- Lecture 20 - Ligand Field Theory (LFT) - 4
- Lecture 21 - 18 Electron Rule
- Lecture 22 - 18 Electron Rule
- Lecture 23 - Metal-Metal Multiple Bonds
- Lecture 24 - Metal-Metal Multiple Bonds [Quadruple and Quintuple Bonding]
- Lecture 25 - Preparation of metal Complexes
- Lecture 26 - Preparation of metal Complexes
- Lecture 27 - Classification of ligands by donor atoms
- Lecture 28 - Classification of ligands by donor atoms - Hydrogen
- Lecture 29 - Classification of ligands by donor atoms - Carbon - 1

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

<http://www.digimat.in>

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

- Lecture 30 - Classification of ligands by donor atoms - Carbon - 2
- Lecture 31 - Classification of ligands by donor atoms - Carbon - 3
- Lecture 32 - Classification of ligands by donor atoms - Carbon - 4
- Lecture 33 - Classification of ligands by donor atoms - Nitrogen - 1
- Lecture 34 - Classification of ligands by donor atoms - Nitrogen - 2
- Lecture 35 - Classification of ligands by donor atoms - Nitrogen - 3
- Lecture 36 - Classification of ligands by donor atoms - Oxygen, Phosphorus
- Lecture 37 - Classification of ligands by donor atoms - Phosphorus - 1
- Lecture 38 - Classification of ligands by donor atoms - Phosphorus - 2
- Lecture 39 - Classification of ligands by donor atoms - Phosphorus - 3
- Lecture 40 - Classification of ligands by donor atoms - Halogens
- Lecture 41 - Oxidative addition and reductive elimination reactions - 1
- Lecture 42 - Oxidative addition and reductive elimination reactions - 2
- Lecture 43 - Oxidative addition and reductive elimination reactions - 3
- Lecture 44 - Oxidative addition and reductive elimination reactions - 4
- Lecture 45 - Inorganic Reaction Mechanisms
- Lecture 46 - Inorganic Reaction Mechanisms Square planar complexes
- Lecture 47 - Trans-Effect
- Lecture 48 - Substitution Reactions in Square Planar Complexes, Trans-Effect
- Lecture 49 - Substitution Reactions in Octahedral Complexes
- Lecture 50 - Substitution Reactions in Octahedral Complexes; Stereochemistry of Products
- Lecture 51 - Electron-Transfer Processes
- Lecture 52 - Electron-Transfer Processes
- Lecture 53 - Methods of Characterization UV-Visible Spectroscopy
- Lecture 54 - Methods of Characterization UV-Visible Spectroscopy
- Lecture 55 - UV-Visible Spectroscopy
- Lecture 56 - UV-Visible Spectroscopy
- Lecture 57 - NMR Spectroscopy
- Lecture 58 - NMR Spectroscopy
- Lecture 59 - NMR and IR Spectroscopy
- Lecture 60 - Summary and Conclusion