

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

NPTEL Video Course - Chemistry and Biochemistry - NOC: Circular Dichroism (CD) and Mossbauer Spectroscopy for

Subject Co-ordinator - Prof. Arnab Dutta

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - CD Spectroscopy: Introduction
- Lecture 2 - Symmetry and Molecular properties
- Lecture 3 - Symmetry elements - I
- Lecture 4 - Symmetry elements - II
- Lecture 5 - Symmetry and point groups - I
- Lecture 6 - Symmetry and point groups - II
- Lecture 7 - Point group determination tutorial
- Lecture 8 - Chirality and point group - I
- Lecture 9 - Chirality and point group - II
- Lecture 10 - Chirality and point group - III tutorial
- Lecture 11 - Chirality and biology - I
- Lecture 12 - Chirality and biology - II
- Lecture 13 - Chirality and biology - III
- Lecture 14 - Chirality and biology - IV
- Lecture 15 - Chirality and biology - V
- Lecture 16 - Origin of chirality
- Lecture 17 - The physical background of chiral response - I
- Lecture 18 - The physical background of chiral response - II
- Lecture 19 - The physical background of chiral response - III
- Lecture 20 - The physical background of chiral response - IV
- Lecture 21 - The physical background of chiral response - IV
- Lecture 22 - The physical background of chiral response - V
- Lecture 23 - The physical background of chiral response - VI
- Lecture 24 - Circular Dichroism Spectra
- Lecture 25 - Examples of Circular Dichroism - I
- Lecture 26 - Examples of Circular Dichroism - II
- Lecture 27 - Examples of Circular Dichroism - III
- Lecture 28 - Examples of Circular Dichroism - IV
- Lecture 29 - Applications of CD spectroscopy - I

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- Lecture 30 - Applications of CD spectroscopy - II
- Lecture 31 - Applications of CD spectroscopy - III
- Lecture 32 - Applications of CD spectroscopy - IV
- Lecture 33 - Applications of CD spectroscopy - V
- Lecture 34 - Applications of CD spectroscopy - VI
- Lecture 35 - CD spectroscopy: Conclusion
- Lecture 36 - MÃssbauer Spectroscopy: Introduction
- Lecture 37 - MÃssbauer Spectroscopy Fundamentals - I
- Lecture 38 - MÃssbauer Spectroscopy
- Lecture 39 - MÃssbauer Spectroscopy Fundamentals - II
- Lecture 40 - MÃssbauer Spectroscopy Fundamentals - III
- Lecture 41 - MÃssbauer Spectroscopy Fundamentals - IV
- Lecture 42 - MÃssbauer Spectroscopy: Isomer shift - I
- Lecture 43 - MÃssbauer Spectroscopy: Isomer shift - II
- Lecture 44 - MÃssbauer Spectroscopy: Isomer shift - III
- Lecture 45 - MÃssbauer Spectroscopy: Quadrupolar splitting - I
- Lecture 46 - MÃssbauer Spectroscopy: Quadrupolar splitting - II
- Lecture 47 - MÃssbauer Spectroscopy: Applications - I
- Lecture 48 - MÃssbauer Spectroscopy: Applications - II
- Lecture 49 - MÃssbauer Spectroscopy: Applications - III
- Lecture 50 - MÃssbauer Spectroscopy: Data measurement
- Lecture 51 - MÃssbauer Spectroscopy: Applications - IV
- Lecture 52 - MÃssbauer Spectroscopy: Effect of ligands - I
- Lecture 53 - MÃssbauer Spectroscopy: Effect of ligands - II
- Lecture 54 - MÃssbauer Spectroscopy: Applications - V
- Lecture 55 - MÃssbauer Spectroscopy: Probing ferrocenes - I
- Lecture 56 - MÃssbauer Spectroscopy: Probing ferrocenes - II
- Lecture 57 - MÃssbauer Spectroscopy: Probing ferrocenes - III
- Lecture 58 - MÃssbauer Spectroscopy: Mixed valent complexes - I
- Lecture 59 - MÃssbauer Spectroscopy: Mixed valent complexes - II
- Lecture 60 - MÃssbauer Spectroscopy: Mixed valent complexes - III
- Lecture 61 - Conclusion section: CD spectroscopy
- Lecture 62 - Conclusion section: MÃssbauer Spectroscopy