

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Spectroscopic Techniques for Pharmaceutical and Biopharm

Subject Co-ordinator - Dr. Shashank Deep

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction to Spectroscopy - I
- Lecture 2 - Introduction to Spectroscopy - II
- Lecture 3 - Introduction to Spectroscopy - III
- Lecture 4 - Introduction to Spectroscopy - IV
- Lecture 5 - Introduction to Spectroscopy - V
- Lecture 6 - Introduction to Spectroscopy - VI
- Lecture 7 - Rotational, rotational Raman Spectroscopy theory and Application - I
- Lecture 8 - Rotational, rotational Raman Spectroscopy theory and Application - II
- Lecture 9 - Vibrational Spectroscopy Theory and Application - I
- Lecture 10 - Vibrational, Rotational-Vibrational, Raman Spectroscopy - II
- Lecture 11 - Vibrational, Rotational-Vibrational, Raman Spectroscopy - III
- Lecture 12 - Problems on Rotational, Vibrational and Raman Spectroscopy
- Lecture 13 - Atomic Spectroscopy - I
- Lecture 14 - Atomic Spectroscopy - II
- Lecture 15 - Atomic Spectroscopy - III
- Lecture 16 - Atomic Spectroscopy - IV
- Lecture 17 - Atomic and Molecular Spectroscopy
- Lecture 18 - Electronic Spectra of Diatomic Molecules and UV-Vis Spectroscopy
- Lecture 19 - UV-Visible Spectroscopy of Conjugated Molecules
- Lecture 20 - UV-Vis Spectroscopy and its Applications - I
- Lecture 21 - UV-Vis Spectroscopy and its Applications - II
- Lecture 22 - UV-Vis and Fluorescence Spectroscopy
- Lecture 23 - Fluorescence Spectroscopy (Continued...)
- Lecture 24 - Application of Fluorescence Spectroscopy
- Lecture 25 - Application of Steady-State Fluorescence
- Lecture 26 - Time- resolved Fluorescence Spectroscopy
- Lecture 27 - Microscopy
- Lecture 28 - Contrast in Microscopy, Fluorescence Microscopy
- Lecture 29 - Fluorescence Microscopy and Application

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- Lecture 30 - Principle of NMR
- Lecture 31 - NMR data processing and Chemical shift
- Lecture 32 - Structure Informations from NMR
- Lecture 33 - Structure Calculation and 2D-NMR Spectroscopy
- Lecture 34 - Mass Spectroscopy