

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

NPTEL Video Course - Chemistry and Biochemistry - Principles and Application of Electron Paramagnetic Resonance

Subject Co-ordinator - Prof. Ranjan Das

Co-ordinating Institute - TIFR

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

- Lecture 1 - Remembering the Masters
- Lecture 2 - Introduction to EPR spectroscopy
- Lecture 3 - Electron-Nuclear Hyperfine Interaction - I
- Lecture 4 - Electron-Nuclear Hyperfine Interaction - II
- Lecture 5 - Magnetic Moment in Magnetic Field - I
- Lecture 6 - Magnetic Moment in Magnetic Field - II
- Lecture 7 - EPR Instrumentations - I
- Lecture 8 - EPR Instrumentations - II
- Lecture 9 - EPR Instrumentations - III
- Lecture 10 - EPR Instrumentations - IV
- Lecture 11 - Quantum Mechanical Description of EPR - I
- Lecture 12 - Quantum Mechanical Description of EPR - II
- Lecture 13 - Introduction to Spin Relaxation
- Lecture 14 - Theory of First-order EPR Spectra - I
- Lecture 15 - Theory of First-order EPR Spectra - II
- Lecture 16 - How to Analyse First-order EPR Spectra
- Lecture 17 - How to Record EPR Spectra
- Lecture 18 - Second-order Effects on EPR Spectra
- Lecture 19 - Photochemistry and EPR Spectroscopy
- Lecture 20 - Electron Spin Polarisation - I
- Lecture 21 - Electron Spin Polarisation - II
- Lecture 22 - Anisotropic Interactions in EPR Spectroscopy
- Lecture 23 - Theoretical Basis of isotropic Hyperfine Coupling
- Lecture 24 - Spin Relaxation and Bloch Equations - I
- Lecture 25 - Spin Relaxation and Bloch Equations - II

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