

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

NPTEL Video Course - Chemical Engineering - NOC:Physical and Electrochemical Characterizations in Chemical En

Subject Co-ordinator - Prof. Tamal Banerjee

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Introduction of Characterization Techniques - Part 1
- Lecture 2 - Introduction to Characterization Techniques - Part 2
- Lecture 3 - Infrared Spectroscopy: Fundamentals
- Lecture 4 - Infrared Spectroscopy: IR Bands and Applications
- Lecture 5 - Infrared Spectrophotometer Instrumentation
- Lecture 6 - Raman Spectroscopy
- Lecture 7 - NMR: Concepts and Fundamentals
- Lecture 8 - Chemical Shifts
- Lecture 9 - Factors Affecting Chemical Shift and 2D NMR
- Lecture 10 - Physisorption: Surface Area and Pore Analysis
- Lecture 11 - Physisorption Measurements
- Lecture 12 - Chemisorption
- Lecture 13 - Surface Tension and its Measurement - Part 1
- Lecture 14 - Surface Tension and its Measurement - Part 2
- Lecture 15 - Interfacial Tension and its Application
- Lecture 16 - Interfacial Tension and Influence of Surface Curvature
- Lecture 17 - Rheology: Fundamentals and Principles
- Lecture 18 - Complex Fluids and their Properties
- Lecture 19 - Rheology: Case Study on Hydrogel Synthesis
- Lecture 20 - Electron Spectroscopy for Surface Analysis
- Lecture 21 - Quantification in XRF and XPS Spectroscopy
- Lecture 22 - XPS Instrument and Application
- Lecture 23 - Introduction to Electrochemical Characterization Techniques
- Lecture 24 - Electrode Potential, Kinetics and Mass Transfer Resistance
- Lecture 25 - Voltammetry and Galvanostatic Charge-Discharge

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