

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Mechanisms in Organic Chemistry

Subject Co-ordinator - Prof. Nandita Madhavan

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - Introduction to Reaction Mechanisms
- Lecture 2 - Writing Reaction Mechanisms
- Lecture 3 - Types of Polar Reactions
- Lecture 4 - The Radical Reactions
- Lecture 5 - Reaction Co-ordinate Diagrams
- Lecture 6 - The Hammond Postulate
- Lecture 7 - Kinetic versus Thermodynamic Control
- Lecture 8 - Curtin-Hammett Principle
- Lecture 9 - An Introduction to Reaction Kinetics
- Lecture 10 - Deriving the Rate Laws
- Lecture 11 - Distinguishing Reaction Mechanisms Using Rate Laws
- Lecture 12 - Methods to Monitor a Reaction
- Lecture 13 - The Hammett Equation
- Lecture 14 - Linear Free Energy Relationships (LFER)
- Lecture 15 - Hammett Plots for Electronic Effects
- Lecture 16 - Scales used in Hammett Plots
- Lecture 17 - Deviation from Linear Free Energy Relationships
- Lecture 18 - LFER for Sterics
- Lecture 19 - Solvent Effects - Part A
- Lecture 20 - Solvent Effects - Part B
- Lecture 21 - Kinetic Isotope Effect
- Lecture 22 - Primary Kinetic Isotope Effect
- Lecture 23 - Secondary Kinetic Isotope Effect - Part A
- Lecture 24 - Secondary Kinetic Isotope Effect - Part B
- Lecture 25 - Heavy Atom Isotope Effects
- Lecture 26 - Equilibrium Isotope Effects
- Lecture 27 - Isotope Labelling
- Lecture 28 - Trapping Intermediates - Part A
- Lecture 29 - Trapping Intermediates - Part B

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

www.digimat.in

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

- Lecture 30 - Trapping Intermediates - Part C
- Lecture 31 - Checking for Common Intermediates
- Lecture 32 - Catalysis - Part A
- Lecture 33 - Catalysis - Part B
- Lecture 34 - Specific Catalysis
- Lecture 35 - General Catalysis - Part A
- Lecture 36 - General Catalysis - Part B
- Lecture 37 - Enzyme Catalysis
- Lecture 38 - Electrophilic Catalysis
- Lecture 39 - Other Types of Catalysis
- Lecture 40 - Course Summary