

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Symmetry, Stereochemistry and Applications

Subject Co-ordinator - Prof. Angshuman Roy Choudhury

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction to stereochemistry
Lecture 2 - Nomenclature of Various Organic Molecules
Lecture 3 - Nomenclature of Cyclic molecules and other functional groups
Lecture 4 - Nomenclature of some complex molecules
Lecture 5 - Practising naming of molecules
Lecture 6 - Symmetry, Stereochemistry and Applications
Lecture 7 - Symmetry elements in organic molecules
Lecture 8 - Molecular point groups - Part I
Lecture 9 - Molecular point groups - Part II
Lecture 10 - Conformations and Configurations
Lecture 11 - Conformational Analysis - Part I
Lecture 12 - Conformational Analysis - Part II
Lecture 13 - Chair and Boat Conformation of Cyclohexane
Lecture 14 - Conformational Analysis of Disubstituted Cyclohexane Molecules
Lecture 15 - Isomerism and Representation of Isomers
Lecture 16 - Stereoisomerism
Lecture 17 - Drawing One Projection from Another
Lecture 18 - Optical Activity of Organic Molecules and Isomerism
Lecture 19 - Allenes and Biphenyls
Lecture 20 - Absolute Configuration in Biphenyls and D/L Systems
Lecture 21 - Asymmetry and Dissymmetry Molecules
Lecture 22 - Stereoisomerism and Local Symmetry
Lecture 23 - Topicity of Ligands
Lecture 24 - Topicity of Faces
Lecture 25 - Problems on Isomers and Topicity
Lecture 26 - Diastereomerism in Ring System - Part 1
Lecture 27 - Diastereomerism in Ring System - Part 2
Lecture 28 - Diastereomerism in Ring System - Part 3
Lecture 29 - Diastereomerism in PI System

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- Lecture 30 - Nucleophilic Reactions
- Lecture 31 - Mechanism of Nucleophilic Substitution Reaction
- Lecture 32 - Stability of Carbocation
- Lecture 33 - Elimination Reactions
- Lecture 34 - Substitution VS Elimination Reactions
- Lecture 35 - Addition Reactions to Alkenes and Alkynes - Part 1
- Lecture 36 - Addition Reactions to Alkenes and Alkynes - Part 2
- Lecture 37 - Oxidizing Agents in Organic Chemistry and Organometallic Compounds
- Lecture 38 - Some Problems and their Answers in Stereochemistry
- Lecture 39 - Dynamic Stereochemistry - Part 1
- Lecture 40 - Dynamic Stereochemistry - Part 2
- Lecture 41 - Reaction Specificity and Selectivity
- Lecture 42 - Cram's Rule and Felkin-Anh Model
- Lecture 43 - Kinetics of Organic Reactions
- Lecture 44 - Name Reactions and Their Mechanism - Part 1
- Lecture 45 - Name Reactions and Their Mechanism - Part 2
- Lecture 46 - Modifications of Diels-Alder Reaction
- Lecture 47 - Name Reactions and Their Mechanism - Part 3
- Lecture 48 - Name Reactions and Their Mechanism - Part 4
- Lecture 49 - Rearrangement Reactions in Organic Chemistry - Part 1
- Lecture 50 - Rearrangement Reactions in Organic Chemistry - Part 2
- Lecture 51 - Rearrangement Reactions in Organic Chemistry - Part 3
- Lecture 52 - Rearrangement Reactions in Organic Chemistry - Part 4
- Lecture 53 - Brief introduction to crystallographic symmetry
- Lecture 54 - Symmetries in X-ray Crystallography
- Lecture 55 - 2D lattices and space groups
- Lecture 56 - 3D crystallographic point groups and space groups