

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Stereochemistry

Subject Co-ordinator - Prof. A. Basak

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Constitution and Configuration
- Lecture 2 - Chirality, Symmetry Elements
- Lecture 3 - Project Ion Formulae Rules for Drawing
- Lecture 4 - Chirotopicity and Stereogenicity
- Lecture 5 - Newmann Projection, Saw Horse Projection, Wedge Formula
- Lecture 6 - Chirotopicity and Stereogenicity
- Lecture 7 - Absolute Configuration
- Lecture 8 - Absolute Configuration (Continued...)
- Lecture 9 - Problems on the above topics
- Lecture 10 - Topicity
- Lecture 11 - Axial Chirality in Allenes, Biphenyls
- Lecture 12 - Relative Configuration, Prochiral Faces and Prochiral Centres
- Lecture 13 - Chirality in Heteroatom Systems
- Lecture 14 - Conformations and Conformers
- Lecture 15 - Conformational Analysis of Acyclic Molecules
- Lecture 16 - Conformational Analysis of Acyclic Molecules (Continued...)
- Lecture 17 - Conformations of Acyclic Molecules Containing Heteroatoms
- Lecture 18 - Conformations of Cyclic Systems
- Lecture 19 - Conformations of Cyclic Systems (Continued...)
- Lecture 20 - Conformation of Cyclobutane and Cyclopentane
- Lecture 21 - Conformation of Cyclohexane
- Lecture 22 - Energy Changes During Flipping
- Lecture 23 - Energy Comparison between Chair and Boat Conformations
- Lecture 24 - Conformational Analysis of Substituted Cyclohexanes
- Lecture 25 - Conformational Analysis of Substituted Cyclohexanes (Continued...)
- Lecture 26 - Conformational Analysis of Substituted Cyclohexanes (Continued...)
- Lecture 27 - Conformational Analysis of Substituted Cyclohexanes (Continued...)
- Lecture 28 - Conformational Analysis of Systems with Preference for Axial Groups
- Lecture 29 - Conformation and Reactivity

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- Lecture 30 - Conformation and Reactivity (Continued...)
- Lecture 31 - Conformation and Reactivity (Continued...)
- Lecture 32 - Stereoelectronic Effects
- Lecture 33 - Stereoelectronic Effects (Continued...)
- Lecture 34 - Substitution and Elimination in Cyclohexane Systems
- Lecture 35 - Stereospecific and Stereoselective Reactions and Asymmetric Synthesis (Elementary Idea)
- Lecture 36 - Asymmetric Induction
- Lecture 37 - Asymmetric Induction
- Lecture 38 - Asymmetric Induction (Continued...)
- Lecture 39 - Facial Selectivity and Examples of Asymmetric Synthesis
- Lecture 40 - Revisiting the Contents Covered