

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

NPTEL Video Course - Chemistry and Biochemistry - Organic photochemistry and pericyclic reactions

Subject Co-ordinator - Dr. N.D. Pradeep Singh

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Organic Photochemistry
- Lecture 2 - Introduction to Organic Photochemistry (Continued...)
- Lecture 3 - Reactivity of $n\text{-}\pi^*$
- Lecture 4 - $\hat{I}\pm$ - cleavage - I
- Lecture 5 - $\hat{I}\pm$ - cleavage - II
- Lecture 6 - $\hat{I}\pm$ - cleavage - III
- Lecture 7 - \hat{I}^2 - cleavage
- Lecture 8 - Intramolecular Hydrogen Abstraction - I
- Lecture 9 - Intramolecular Hydrogen Abstraction - II
- Lecture 10 - Intramolecular Hydrogen Abstraction - III
- Lecture 11 - Intramolecular Hydrogen Abstraction
- Lecture 12 - Addition to \hat{I} - System
- Lecture 13 - Intramolecular Paterno-Buchi Reaction
- Lecture 14 - Energy of Electron Transfer Reaction
- Lecture 15 - Reactivity of $\hat{I} - \hat{I}^*$
- Lecture 16 - Addition Reaction of $\hat{I} - \hat{I}^*$
- Lecture 17 - Addition Reaction of $\hat{I} - \hat{I}^*$ (Continued...)
- Lecture 18 - Di-Pi Methane Rearrangement
- Lecture 19 - Photochemistry of Cyclohexanone
- Lecture 20 - Singlet Oxygen Chemistry
- Lecture 21 - Carbenes and Nitrenes
- Lecture 22 - Remote Functionalisation
- Lecture 23 - Introduction to Pericyclic Reaction
- Lecture 24 - Sigmatropic Reactions - I
- Lecture 25 - Sigmatropic Reactions - II
- Lecture 26 - Sigmatropic Reactions - III
- Lecture 27 - Cycloaddition Reactions - I
- Lecture 28 - Cycloaddition Reactions - II
- Lecture 29 - Cycloaddition - Diels-Alder Reactions

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- Lecture 30 - Cycloaddition - Diels-Alder Reactions (Continued...)
- Lecture 31 - Cycloaddition - Ene Reactions
- Lecture 32 - 1,3 Dipolar Cycloaddition - I
- Lecture 33 - 1,3 Dipolar Cycloaddition - II
- Lecture 34 - Electrocyclic Reaction - I
- Lecture 35 - Electrocyclic Reaction - II
- Lecture 36 - Practice Problems in Pericyclic Reaction - I
- Lecture 37 - Practice Problems in Pericyclic Reaction - II
- Lecture 38 - Practice Problems in Pericyclic Reaction - III
- Lecture 39 - Chelotropic Reaction
- Lecture 40 - Application of Photochemistry