

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Transition Metal Organometallic Chemistry - Principles

Subject Co-ordinator - Prof. P. Ghosh

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - History of Organometallic Compounds
- Lecture 2 - Polarity and Reactivity of M-C bonds
- Lecture 3 - Reactivity of Organometallic Compounds
- Lecture 4 - Reactivity of Organometallic Compounds
- Lecture 5 - 18 Valence Electron Rule and Classification
- Lecture 6 - 18 Valence Electron Rule and Classification
- Lecture 7 - Reactivity and types of Organometallic compounds
- Lecture 8 - Sigma-Donor Ligands
- Lecture 9 - Preparation of Sigma-Alkyl Compounds
- Lecture 10 - Preparation and Properties of Sigma-Alkyl Compounds
- Lecture 11 - Properties of Sigma-Alkyl Compounds
- Lecture 12 - β elimination in Sigma-Alkyl Compounds
- Lecture 13 - β elimination in Detail
- Lecture 14 - TM Sigma-Alkyl Complexes and its Application
- Lecture 15 - TM Sigma-Alkyl Complexes and its Application
- Lecture 16 - C-H Activation
- Lecture 17 - C-H Activation in Details
- Lecture 18 - C-H Activation in Details
- Lecture 19 - Characterization of C-H Activation
- Lecture 20 - Bonding in C-H Activation
- Lecture 21 - C-C Bond Activation
- Lecture 22 - C-C Bond Activation
- Lecture 23 - C-C Bond Activation in Details
- Lecture 24 - Transition Metal Perfluoroalkyl (R_nF_{3n-1}) Complexes
- Lecture 25 - Preparation of Transition Metal Perfluoroalkyl (R_nF_{3n-1}) Complexes
- Lecture 26 - C-F Activation
- Lecture 27 - Transition Metal Alkenyl/Aryl Complexes
- Lecture 28 - Transition Metal Aryl Complexes
- Lecture 29 - Transition Metal Aryl/Alkyne Complexes

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- Lecture 30 - Transition Metal Alkyne/Carbene Complexes
- Lecture 31 - Transition Metal Carbene Complexes
- Lecture 32 - Transition Metal Carbene Complexes
- Lecture 33 - Transition Metal Carbene Complexes
- Lecture 34 - Transition Metal Carbene Complexes
- Lecture 35 - Transition Metal Carbene Complexes
- Lecture 36 - Transition Metal Carbene Complexes
- Lecture 37 - Reactivity of Schrock type Carbene Complexes and Transition Metal Carbynes
- Lecture 38 - Transition Metal Carbynes
- Lecture 39 - Transition Metal Carbynes
- Lecture 40 - Transition Metal Carbynes
- Lecture 41 - Properties of Transition Metal Carbynes And Transition Metal Carbonyls
- Lecture 42 - Transition Metal Carbonyls
- Lecture 43 - Transition Metal Carbonyls
- Lecture 44 - Transition Metal Carbonyls
- Lecture 45 - Transition Metal Carbonyls
- Lecture 46 - Transition Metal Carbonyls
- Lecture 47 - Transition Metal Carbonyls
- Lecture 48 - Transition Metal Carbonyl Hydrides
- Lecture 49 - Application of Carbonyl Metallates and Metal Halides
- Lecture 50 - Application of Metal Halides and Metal Alkenes
- Lecture 51 - Transition Metal Olefin Complexes
- Lecture 52 - Transition Metal Olefin Complexes
- Lecture 53 - Transition Metal Olefin Complexes
- Lecture 54 - Bonding Properties in Olefin Complexes
- Lecture 55 - Transition Metal Diolefin Complexes
- Lecture 56 - Transition Metal Diolefin and Alkyne Complexes
- Lecture 57 - Transition Metal Alkyne Complexes
- Lecture 58 - Transition Metal Alkyne Complexes
- Lecture 59 - Transition Metal Alkyne Complexes
- Lecture 60 - Summary