

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Transition Metal Organometallics in Catalysis and Biolo

Subject Co-ordinator - Prof. Prasenjit Ghosh

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - Introduction
- Lecture 2 - Reppe Synthesis (Introduction)
- Lecture 3 - Reppe Reactions - Part 1
- Lecture 4 - Reppe Reactions - Part 2
- Lecture 5 - Reppe Reactions - Part 3
- Lecture 6 - Metallative and Conventional Reppeand Metathesis Reaction (Introduction)
- Lecture 7 - Origin of Olefin Metathesis
- Lecture 8 - Mechanistic approaches of Metathesis Reaction - Part 1
- Lecture 9 - Mechanistic approaches of Metathesis Reaction - Part 2
- Lecture 10 - Mechanistic approaches of Metathesis Reaction - Part 3
- Lecture 11 - Mechanistic approaches of Metathesis Reaction - Part 4
- Lecture 12 - Types of Carbenes
- Lecture 13 - Types of Metathesis Reactions
- Lecture 14 - Alkyne Metathesis
- Lecture 15 - Catalysis Development Aspect of Olefin Metathesis - Part 1
- Lecture 16 - Catalysis Development Aspect of Olefin Metathesis - Part 2
- Lecture 17 - Catalysis Development Aspect of Olefin Metathesis - Part 3
- Lecture 18 - Catalysis Development Aspect of Olefin Metathesis - Part 4
- Lecture 19 - Cross Metathesis - Part 1
- Lecture 20 - Cross Metathesis - Part 2
- Lecture 21 - Cross Metathesis - Part 3
- Lecture 22 - Ring Opening Metathesis - Part 1
- Lecture 23 - Ring Opening Metathesis - Part 2
- Lecture 24 - Ring Opening Metathesis - Part 3
- Lecture 25 - Ring Closing Metathesis - Part 1
- Lecture 26 - Ring Closing Metathesis - Part 2
- Lecture 27 - Ring Closing Metathesis - Part 3
- Lecture 28 - Alkyne Metathesis
- Lecture 29 - Alkene Alkyne Metathesis - Part 1

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- Lecture 30 - Alkene Alkyne Metathesis - Part 2
- Lecture 31 - Alkene Alkyne Metathesis - Part 3
- Lecture 32 - Ring Closing Eneyne Metathesis (RCEYM) - Part 1
- Lecture 33 - Ring Closing Eneyne Metathesis (RCEYM) - Part 2
- Lecture 34 - Ring Closing Eneyne Metathesis (RCEYM) and Alkenes and Alkynes oligomerization reactions
- Lecture 35 - Oligomerization of alkenes and alkynes - Part 1
- Lecture 36 - Oligomerization of alkenes and alkynes - Part 2
- Lecture 37 - Oligomerization of alkenes and alkynes - Part 3
- Lecture 38 - Oligomerization of alkenes and alkynes - Part 4
- Lecture 39 - Alkene oligomerization and Polymerization.
- Lecture 40 - Olefin Polymerization - Part 1
- Lecture 41 - Olefin Polymerization - Part 2
- Lecture 42 - Olefin Polymerization - Part 3
- Lecture 43 - Olefin Polymerization - Part 4
- Lecture 44 - Olefin Polymerization - Part 5
- Lecture 45 - Olefin Polymerization - Part 6
- Lecture 46 - Olefin Polymerization - Part 7
- Lecture 47 - Olefin Polymerization - Part 8
- Lecture 48 - Olefin Polymerization - Part 9
- Lecture 49 - Olefin Polymerization - Part 10
- Lecture 50 - Olefin Polymerization - Part 11
- Lecture 51 - Olefin Polymerization - Part 12
- Lecture 52 - Olefin Polymerization - Part 13
- Lecture 53 - Olefin Polymerization - Part 14
- Lecture 54 - Olefin Polymerization - Part 15
- Lecture 55 - Olefin Polymerization - Part 16
- Lecture 56 - Homo and Copolymerization; Functionalized olefins, Cycloolefins and Diolefins
- Lecture 57 - Non- Group IV Metal based olefin polymerization catalysts
- Lecture 58 - Non- Group IV Metal based olefin polymerization catalysts
- Lecture 59 - Bioorganometallic Chemistry
- Lecture 60 - Overall summary of Transition metal organometallics in catalysis and biology