

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Advanced Chemical Thermodynamics and Kinetics

Subject Co-ordinator - Prof.Arijit Kumar De

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Review of Classical Thermodynamics - 1  
Lecture 2 - Review of Classical Thermodynamics - 2  
Lecture 3 - Review of Classical Thermodynamics - 3  
Lecture 4 - Review of Classical Thermodynamics - 4  
Lecture 5 - Review of Classical Thermodynamics - 5  
Lecture 6 - Molecular Interactions - 1  
Lecture 7 - Molecular Interactions - 2  
Lecture 8 - Molecular Interactions - 3  
Lecture 9 - Molecular Interactions - 4  
Lecture 10 - Molecular Interactions - 5  
Lecture 11 - Transport Phenomena - 1  
Lecture 12 - Transport Phenomena - 2  
Lecture 13 - Transport Phenomena - 3  
Lecture 14 - Review of Chemical Kinetics - 1  
Lecture 15 - Review of Chemical Kinetics - 2  
Lecture 16 - Review of Chemical Kinetics - 3  
Lecture 17 - Review of Chemical Kinetics - 4  
Lecture 18 - Review of Chemical Kinetics - 5  
Lecture 19 - Advanced Topic in Chemical Kinetics - 1  
Lecture 20 - Advanced Topic in Chemical Kinetics - 2  
Lecture 21 - Advanced Topic in Chemical Kinetics - 3  
Lecture 22 - Introduction to statistical thermodynamics - 1  
Lecture 23 - Introduction to statistical thermodynamics - 2  
Lecture 24 - Introduction to statistical thermodynamics - 3  
Lecture 25 - Introduction to bimolecular reaction dynamics - 1  
Lecture 26 - Introduction to bimolecular reaction dynamics - 2  
Lecture 27 - Introduction to bimolecular reaction dynamics - 3  
Lecture 28 - Introduction to bimolecular reaction dynamics - 4  
Lecture 29 - Unimolecular reaction - 1

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

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- Lecture 30 - Unimolecular reaction - 2
- Lecture 31 - Introduction to solution phase reactions dynamics - 1
- Lecture 32 - Introduction to solution phase reactions dynamics - 2
- Lecture 33 - Introduction to solution phase reactions dynamics - 3
- Lecture 34 - Introduction to solution phase reactions dynamics - 4
- Lecture 35 - Introduction to solution phase reactions dynamics - 5
- Lecture 36 - Non-ideal solutions, Activity of ions (Debye-Huckel theory) - 1
- Lecture 37 - Non-ideal solutions, Activity of ions (Debye-Huckel theory) - 2
- Lecture 38 - Electrochemistry
- Lecture 39 - Electrochemistry
- Lecture 40 - Reaction Dynamics
- Lecture 41 - Chemical Kinetics
- Lecture 42 - Transport Phenomena
- Lecture 43 - Equilibrium constant using partition method
- Lecture 44 - Photochemistry