

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Introduction to Molecular Thermodynamics

Subject Co-ordinator - Prof. Srabani Taraphder

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Review of Classical Thermodynamics - Part I
- Lecture 2 - Review of Classical Thermodynamics - Part II
- Lecture 3 - Thermodynamic potentials - Part 1
- Lecture 4 - Thermodynamic potentials - Part 2
- Lecture 5 - Microstates of a system
- Lecture 6 - Microstates of a System (Continued...)
- Lecture 7 - Microstates of a system (Continued...)
- Lecture 8 - Microstates of a system (Continued...)
- Lecture 9 - Microstates of a system
- Lecture 10 - Microstates of a system
- Lecture 11 - Microstates of a system (Continued...)
- Lecture 12 - Microstates of a system (Continued...)
- Lecture 13 - Microstates of a System (Continued...)
- Lecture 14 - Fundamentals of Statistical Mechanics
- Lecture 15 - Statistical Ensembles
- Lecture 16 - Microstates of a system
- Lecture 17 - Canonical ensemble - Part I
- Lecture 18 - Canonical Ensemble - Part I (Continued...)
- Lecture 19 - Canonical Ensemble - Part II
- Lecture 20 - Canonical Ensemble - Part III
- Lecture 21 - Ideal gas
- Lecture 22 - Ideal gases (Continued...)
- Lecture 23 - Ideal gases (Continued...)
- Lecture 24 - Ideal gases (Continued...)
- Lecture 25 - Statistical thermodynamics of ideal gases (Continued...)
- Lecture 26 - Statistical Thermodynamics of ideal gases (Continued...)
- Lecture 27 - Statistical thermodynamics of ideal gases (Continued...)
- Lecture 28 - Statistical thermodynamics of ideal gases (Continued...)
- Lecture 29 - Statistical thermodynamics of ideal gases (Continued...)

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- Lecture 30 - Statistical thermodynamics of diatomic ideal gases
- Lecture 31 - Statistical thermodynamics of ideal gas
- Lecture 32 - Chemical reaction equilibrium
- Lecture 33 - Specific heat of solids
- Lecture 34 - Application of Molecular Thermodynamics
- Lecture 35 - Introduction to classical statistical mechanics
- Lecture 36 - Introduction to classical statistical mechanics (Continued...)
- Lecture 37 - Classical Statistical Mechanics
- Lecture 38 - Classical Statistical Mechanics
- Lecture 39 - Classical Statistical Mechanics
- Lecture 40 - Rate of Chemical Reaction