

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

NPTEL Video Course - Chemistry and Biochemistry - Bio-Physical Chemistry

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Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - A Course on Bio-physical Chemistry
Lecture 2 - Protein Structure
Lecture 3 - Secondary Structure of Proteins
Lecture 4 - Secondary Structure of Proteins (Continued...)
Lecture 5 - Tertiary Structure
Lecture 6 - Forces in Protein Folding
Lecture 7 - Forces in Protein Folding (Continued...)
Lecture 8 - Electrostatics (Continued...)
Lecture 9 - Intermolecular Interactions
Lecture 10 - Dipole-Dipole Interaction
Lecture 11 - Electrostatics (Continued...)
Lecture 12 - Hydrophobic Effect
Lecture 13 - Hydrophobic Effect (Continued...)
Lecture 14 - Hydrogen Bonding
Lecture 15 - Protein Stability Curves
Lecture 16 - Thermodynamics of Protein Unfolding
Lecture 17 - Thermodynamics of Protein Unfolding (Continued...)
Lecture 18 - Mechanism of Chemical Denaturation
Lecture 19 - Pressure Induced Denaturation (The P-T Diagram)
Lecture 20 - Protein Folding Pathways and Energy Landscapes
Lecture 21 - Diffusion
Lecture 22 - Diffusion (Continued...)
Lecture 23 - Diffusion (Continued...)
Lecture 24 - Langevin Equation and Brownian Motion
Lecture 25 - Langevin Equation and Brownian Motion (Continued...)
Lecture 26 - Langevin Equation and Brownian Motion (Continued...)
Lecture 27 - Protein Folding
Lecture 28 - Protein Folding
Lecture 29 - Protein Folding

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- Lecture 30 - Protein Folding
- Lecture 31 - Protein Folding Kinetics
- Lecture 32 - Protein Folding Kinetics
- Lecture 33 - Protein Folding Kinetics
- Lecture 34 - Protein Folding Kinetics
- Lecture 35 - Experimental Tools
- Lecture 36 - Spectroscopy
- Lecture 37 - Spectroscopy
- Lecture 38 - Electronic Spectroscopy Absorption and Fluorescence
- Lecture 39 - Fluorescence
- Lecture 40 - Fluorescence Quenching
- Lecture 41 - Infrared Spectroscopy of Proteins
- Lecture 42 - Infrared Spectroscopy of Proteins (Continued...)