

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Ultrafast Optics and Spectroscopy

Subject Co-ordinator - Prof. Atanu Bhattacharya

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1

Lecture 2

Lecture 3

Lecture 4

Lecture 5

Lecture 6

Lecture 7

Lecture 8 - Nonlinear Effects

Lecture 9 - Nonlinear Effects (Continued...)

Lecture 10 - Nonlinear Effects (Continued...)

Lecture 11 - Nonlinear Effects (Continued...)

Lecture 12 - Nonlinear Effects (Continued...)

Lecture 13 - Nonlinear Effects (Continued...)

Lecture 14 - Nonlinear Effects (Continued...)

Lecture 15 - Dispersion Effects

Lecture 16 - Nonlinear and Dispersion Effects (Continued...)

Lecture 17 - Nonlinear and Dispersion Effects (Continued...)

Lecture 18 - Transverse Electromagnetic Mode

Lecture 19 - Transverse Electromagnetic Mode (Continued...)

Lecture 20 - Construction of Ultrafast Laser

Lecture 21 - Construction of Ultrafast Laser (Continued...)

Lecture 22 - Construction of Ultrafast Laser (Continued...)

Lecture 23 - Measurement of Ultrafast Pulse

Lecture 24 - Measurement of Ultrafast Pulse (Continued...)

Lecture 25 - Measurement Techniques in Ultrafast Spectroscopy

Lecture 26 - Kinetic Model of Ultrafast Spectroscopy

Lecture 27 - Kinetic Model of Ultrafast Spectroscopy (Continued...)

Lecture 28 - Quantum Mechanical Model of Ultrafast Spectroscopy

Lecture 29 - Ultrafast Physical Chemistry

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

- Lecture 30 - Ultrafast Physical Chemistry
- Lecture 31 - Ultrafast Physical Chemistry
- Lecture 32 - Maxwell's Equations
- Lecture 33 - Maxwell's Equations (Continued...)
- Lecture 34 - Ab Initio Molecular Dynamics - 1
- Lecture 35 - Ab Initio Molecular Dynamics - 2
- Lecture 36 - Ab Initio Molecular Dynamics - 3
- Lecture 37 - Ab Initio Molecular Dynamics - 4
- Lecture 38 - Attosecond Chemical Dynamics - 1
- Lecture 39 - Attosecond Chemical Dynamics - 2
- Lecture 40 - Attosecond Chemical Dynamics - 3
- Lecture 41 - Attosecond Chemical Dynamics - 4
- Lecture 42 - Femtochemistry of Nanocatalysis - 1
- Lecture 43 - Femtochemistry of Nanocatalysis - 2