

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

NPTEL Video Course - Physics - NOC:Atomic and Molecular Physics

Subject Co-ordinator - Prof. Amal Kumar Das

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Experimental observations and theoretical development in discovery of constituents of an atom
Lecture 2 - Experimental observations and theoretical development in discovery of constituents of an atom (C
Lecture 3 - Experimental observations and theoretical development in discovery of constituents of an atom (C
Lecture 4 - Experimental observations and theoretical development in discovery of constituents of an atom (C
Lecture 5 - Experimental observations and theoretical development in discovery of constituents of an atom (C
Lecture 6 - Structure of an atom
Lecture 7 - Structure of an atom
Lecture 8 - Structure of an atom (Continued...)
Lecture 9 - Atomic structure of an atom
Lecture 10 - Atomic structure of an atom
Lecture 11 - Structure of an atom
Lecture 12 - Atomic structure of an atom
Lecture 13 - Atomic structure of an atom
Lecture 14 - Structure of an atom
Lecture 15 - Structure of an atom
Lecture 16 - Structure of an atom
Lecture 17 - Structure of an atom
Lecture 18 - Structure of an atom
Lecture 19 - Structure of an atom
Lecture 20 - Structure of an atom
Lecture 21 - Atomic spectra
Lecture 22 - Atomic spectra
Lecture 23 - Multielectron atoms
Lecture 24 - Multielectron atoms (Continued...)
Lecture 25 - Multielectron atoms (Continued...)
Lecture 26 - Multielectron atoms (Continued...)
Lecture 27 - Quantum mechanical treatment
Lecture 28 - Quantum mechanical treatment (Continued...)
Lecture 29 - Quantum mechanical treatment of H-like atom

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- Lecture 30 - Quantum mechanical treatment of H-like atom (Continued...)
- Lecture 31 - Quantum mechanical treatment of Hydrogen like atom
- Lecture 32 - Quantum mechanical treatment of Hydrogen like atom (Continued...)
- Lecture 33 - Quantum mechanical treatment of hydrogen like atom (Continued...)
- Lecture 34 - Quantum mechanical treatment of hydrogen like atom (Continued...)
- Lecture 35 - Quantum mechanical treatment of hydrogen like atom (Continued...)
- Lecture 36 - Quantum Mechanical treatment of Hydrogen like atom (Continued...)
- Lecture 37 - Quantum Mechanical treatment of Hydrogen like atom (Continued...)
- Lecture 38 - Hydrogen like atom in magnetic field
- Lecture 39 - Hydrogen like atom in magnetic field (Continued...)
- Lecture 40 - Hydrogen like atom in electric field
- Lecture 41 - Physics of molecules
- Lecture 42 - Rotation of a molecule
- Lecture 43 - Rotation of a molecule (Continued...)
- Lecture 44 - Rotation of a molecule (Continued...)
- Lecture 45 - Rotation of a molecule (Continued...)
- Lecture 46 - Vibration of a molecule
- Lecture 47 - Vibration of a molecule (Continued...)
- Lecture 48 - Vibration of a molecule (Continued...)
- Lecture 49 - Vibration of a molecule (Continued...)
- Lecture 50 - Vibration of a molecule (Continued...)
- Lecture 51 - Electronic spectra of a molecule
- Lecture 52 - Electronic spectra of a molecule (Continued...)
- Lecture 53 - Electronic structure of molecules
- Lecture 54 - Electronic structure of molecules (Continued...)
- Lecture 55 - Electronic structure of a molecule
- Lecture 56 - Atomic and Molecular Spectroscopy
- Lecture 57 - Raman Spectroscopy
- Lecture 58 - Raman Spectroscopy (Continued...)
- Lecture 59 - Raman Spectroscopy (Continued...)
- Lecture 60 - Resonance spectroscopy