

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

NPTEL Video Course - Physics - NOC:Quantum Mechanics-I

Subject Co-ordinator - Prof. Ramadevi

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Introduction to Quantum Mechanics - I
Lecture 2 - Introduction to Quantum Mechanics - II
Lecture 3 - Review of Particle in Box, Potential Well, Barrier, Harmonic Oscillator - I
Lecture 4 - Review of Particle in Box, Potential Well, Barrier, Harmonic Oscillator - II
Lecture 5 - Tutorial 1 - Part I
Lecture 6 - Tutorial 1 - Part II
Lecture 7 - Bound States - I
Lecture 8 - Bound States - II
Lecture 9 - Conditions and Solutions for one Dimensional Bound States - I
Lecture 10 - Conditions and Solutions for one Dimensional Bound States - II
Lecture 11 - Tutorial 2
Lecture 12 - Linear Vector Space (LVS) - I
Lecture 13 - Linear Vector Space (LVS) - II
Lecture 14 - Linear Vector Space (LVS) - III
Lecture 15 - Basis for Operators and States in LVS - I
Lecture 16 - Basis for Operators and States in LVS - II
Lecture 17 - Tutorial 3 - Part I
Lecture 18 - Tutorial 3 - Part II
Lecture 19 - Function Spaces - I
Lecture 20 - Function Spaces - II
Lecture 21 - Postulates of Quantum Mechanics - I
Lecture 22 - Postulates of Quantum Mechanics - II
Lecture 23 - Tutorial 4 - Part I
Lecture 24 - Tutorial 4 - Part II
Lecture 25 - Classical vs Quantum Mechanics - I
Lecture 26 - Classical vs Quantum Mechanics - II
Lecture 27 - Compatible vs Incompatible Observable - I
Lecture 28 - Compatible vs Incompatible Observable - II
Lecture 29 - Tutorial 5 - Part I

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Lecture 30 - Tutorial 5 - Part II
Lecture 31 - Tutorial 5 - Part III
Lecture 32 - Schrodinger and Heisenberg Pictures - I
Lecture 33 - Schrodinger and Heisenberg Pictures - II
Lecture 34 - Solutions to other Coupled Potential Energies - I
Lecture 35 - Solutions to other Coupled Potential Energies - II
Lecture 36 - Tutorial 6 - Part I
Lecture 37 - Tutorial 6 - Part II
Lecture 38 - Hydrogen Atom and Wave Functions, Angular Momentum Operators, Identical Particles - I
Lecture 39 - Hydrogen Atom and Wave Functions, Angular Momentum Operators, Identical Particles - II
Lecture 40 - Identical Particles and Quantum Computer - I
Lecture 41 - Identical Particles and Quantum Computer - II
Lecture 42 - Tutorial 7 - Part I
Lecture 43 - Tutorial 7 - Part II
Lecture 44 - Harmonic Oscillator - I
Lecture 45 - Harmonic Oscillator - II
Lecture 46 - Ladder Operators - I
Lecture 47 - Ladder Operators - II
Lecture 48 - Tutorial 8 - Part I
Lecture 49 - Tutorial 8 - Part II
Lecture 50 - Stern-Gerlach Experiment - I
Lecture 51 - Stern-Gerlach Experiment - II
Lecture 52 - Oscillator Algebra
Lecture 53 - Tutorial 9 - Part I
Lecture 54 - Tutorial 9 - Part II
Lecture 55 - Angular Momentum - I
Lecture 56 - Angular Momentum - II
Lecture 57 - Rotations Groups - I
Lecture 58 - Rotations Groups - II
Lecture 59 - Tutorial 10 - Part I
Lecture 60 - Tutorial 10 - Part II
Lecture 61 - Addition of Angular Momentum - I
Lecture 62 - Addition of Angular Momentum - II
Lecture 63 - Clebsch-Gordan Coefficients - I
Lecture 64 - Clebsch-Gordan Coefficients - II
Lecture 65 - Tutorial 11 - Part I
Lecture 66 - Tutorial 11 - Part II
Lecture 67 - Clebsch-Gordan Coefficients - III
Lecture 68 - Tensor Operators and Wigner-Eckart Theorem - I

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Lecture 69 - Tensor Operators and Wigner-Eckart Theorem - II
Lecture 70 - Tensor Operators and Wigner-Eckart Theorem - III
Lecture 71 - Tutorial 12