

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

NPTEL Video Course - Physics - Special Topics in Classical Mechanics

Subject Co-ordinator - Prof. P.C. Deshmukh

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Course Overview
- Lecture 2 - Equations of Motion (i)
- Lecture 3 - Equations of Motion (ii)
- Lecture 4 - Equations of Motion (iii)
- Lecture 5 - Equations of Motion (iv)
- Lecture 6 - Equations of Motion (v)
- Lecture 7 - Oscillators, Resonances, Waves (i)
- Lecture 8 - Oscillators, Resonances, Waves (ii)
- Lecture 9 - Oscillators, Resonances, Waves (iii)
- Lecture 10 - Oscillators, Resonances, Waves (iv)
- Lecture 11 - Polar Coordinates (i)
- Lecture 12 - Polar Coordinates (ii)
- Lecture 13 - Dynamical Symmetry in the Kepler Problem (i)
- Lecture 14 - Dynamical Symmetry in the Kepler Problem (ii)
- Lecture 15 - Real Effects of Pseudo-Forces (i)
- Lecture 16 - Real Effects of Pseudo-Forces (ii)
- Lecture 17 - Real Effects of Pseudo-Forces (iii)
- Lecture 18 - Real Effects of Pseudo-Forces (iv)
- Lecture 19 - Special Theory of Relativity (i)
- Lecture 20 - Special Theory of Relativity (ii)
- Lecture 21 - Special Theory of Relativity (iii)
- Lecture 22 - Special Theory of Relativity (iv)
- Lecture 23 - Potentials Gradients Fields (i)
- Lecture 24 - Potentials Gradients Fields (ii)
- Lecture 25 - Potentials Gradients Fields (iii)
- Lecture 26 - Gauss Law Eq of continuity (i)
- Lecture 27 - Gauss Law Eq of continuity (ii)
- Lecture 28 - Gauss Law Eq of continuity (iii)
- Lecture 29 - Fluid Flow Bernoulli Principle (i)

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- Lecture 30 - Fluid Flow Bernoulli Principle (ii)
- Lecture 31 - Classical Electrodynamics (i)
- Lecture 32 - Classical Electrodynamics (ii)
- Lecture 33 - Classical Electrodynamics (iii)
- Lecture 34 - Classical Electrodynamics (iv)
- Lecture 35 - Chaotic Dynamical Systems (i)
- Lecture 36 - Chaotic Dynamical Systems (ii)
- Lecture 37 - Chaotic Dynamical Systems (iii)
- Lecture 38 - Chaotic Dynamical Systems (iv)
- Lecture 39 - Chaotic Dynamical Systems (v)
- Lecture 40 - The Scope and Limitations of Classical Mechanics