

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

NPTEL Video Course - Mechanical Engineering - NOC:Advanced Dynamics

Subject Co-ordinator - Prof. Anirvan DasGupta

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Coordinate Systems - I
Lecture 2 - Coordinate Systems - II
Lecture 3 - Relative Motion - I
Lecture 4 - Relative Motion - II
Lecture 5 - Relative Motion - III
Lecture 6 - Particle kinetics - I
Lecture 7 - Particle kinetics - II
Lecture 8 - Particle kinetics - III
Lecture 9 - Particle kinetics - IV
Lecture 10 - Particle kinetics - V
Lecture 11 - Work-energy relation - I
Lecture 12 - Work-energy relation - II
Lecture 13 - Impulse-momentum relation - I
Lecture 14 - Impulse-momentum relation - II
Lecture 15 - Particle impact - I
Lecture 16 - Particle impact - II
Lecture 17 - Central force motion - I
Lecture 18 - Central force motion - II
Lecture 19 - Central force motion - III
Lecture 20 - Central force motion - IV
Lecture 21 - Systems with Mass Flow - I
Lecture 22 - Systems with Mass Flow - II
Lecture 23 - Kinetics of a System of Particles - I
Lecture 24 - Kinetics of a System of Particles - II
Lecture 25 - Kinetics of a System of Particles - III
Lecture 26 - Kinetics of a System of Particles: Extension to Rigid Bodies
Lecture 27 - Planar Kinetics of Rigid Bodies - I
Lecture 28 - Planar Kinetics of Rigid Bodies - II
Lecture 29 - Planar Kinetics: Work-Energy Relations - I

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- Lecture 30 - Planar Kinetics: Work-Energy Relations - II
- Lecture 31 - Planar kinetics: impulse-momentum relations - I
- Lecture 32 - Planar kinetics: impulse-momentum relations - II
- Lecture 33 - Spatial kinematics of rigid bodies - I
- Lecture 34 - Spatial kinematics of rigid bodies - II
- Lecture 35 - Spatial kinetics of rigid bodies - I
- Lecture 36 - Spatial kinetics of rigid bodies - II
- Lecture 37 - Spatial kinetics of rigid bodies - III
- Lecture 38 - Gyroscopic motion - I
- Lecture 39 - Gyroscopic motion - II
- Lecture 40 - Gyroscopic motion - III
- Lecture 41 - Kinematics of rotation - I
- Lecture 42 - Kinematics of rotation - II
- Lecture 43 - Kinematics of rotation - III
- Lecture 44 - Kinematics of rotation - IV
- Lecture 45 - Kinematics of rotation - V
- Lecture 46 - Introduction to Analytical Dynamics: generalized coordinates - I
- Lecture 47 - Introduction to Analytical Dynamics: generalized coordinates - II
- Lecture 48 - Hamilton's principle and Lagrange's equation of motion - I
- Lecture 49 - Hamilton's principle and Lagrange's equation of motion - II
- Lecture 50 - Hamilton's principle and Lagrange's equation of motion - III
- Lecture 51 - Hamilton's principle and Lagrange's equation of motion - IV
- Lecture 52 - Systems with constraints - I
- Lecture 53 - Systems with constraints - II
- Lecture 54 - Systems with constraints - III
- Lecture 55 - Systems with constraints - IV
- Lecture 56 - Symmetries and conservation laws - I
- Lecture 57 - Symmetries and conservation laws - II
- Lecture 58 - Symmetries and conservation laws - III
- Lecture 59 - Symmetries and conservation laws - IV
- Lecture 60 - Intermediate axis theorem