

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

NPTEL Video Course - Mechanical Engineering - Vibration control

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Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Basics of Vibrations for Simple Mechanical Systems
- Lecture 2 - Introduction to Damping in Free and Force Vibrations
- Lecture 3 - Free and Forced Vibrations of Two Degree of Systems
- Lecture 4 - Multi Degree of Freedom Systems
- Lecture 5 - Reduction at source - 1
- Lecture 6 - Reduction at source - 2
- Lecture 7 - Reduction at source - 3
- Lecture 8 - Feedback Control System - 1
- Lecture 9 - Shunt Damping
- Lecture 10 - Vibration Isolation - 1
- Lecture 11 - Vibration Isolation - 2
- Lecture 12 - Vibration Isolation - 3
- Lecture 13 - Source Classification
- Lecture 14 - Self Excitation Vibration
- Lecture 15 - Flow Induction Vibration
- Lecture 16 - Field Balancing of Rigid / Flexible Rotors
- Lecture 17 - Damping
- Lecture 18 - Damping
- Lecture 19 - Numerical Problems
- Lecture 20 - Design Sensitivity - I
- Lecture 21 - Design Specification
- Lecture 22 - Design for Enhanced Material Damping
- Lecture 23 - Basics of Passive Vibration Control
- Lecture 24 - Design of Absorber
- Lecture 25 - Shock Absorber
- Lecture 26 - Isolators with Stiffness and Damping
- Lecture 27 - Basics of Active Vibration Control
- Lecture 28 - Piezoelectric Material - I
- Lecture 29 - Piezoelectric Material - II

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- Lecture 30 - Piezoelectric Accelerometers
- Lecture 31 - Electro-rheological (ER) Fluids
- Lecture 32 - Magneto-rheological (MR) Fluids
- Lecture 33 - Magneto and Electrostrictive Materials
- Lecture 34 - Shape Memory Alloy
- Lecture 35 - Electro-Magnetics
- Lecture 36 - Numerical Problems
- Lecture 37 - Basics of Vibration Measurement System
- Lecture 38 - Data Acquisition
- Lecture 39 - Fourier Transformation
- Lecture 40 - Filters