

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

NPTEL Video Course - Mechanical Engineering - NOC:Vibrations of Structures

Subject Co-ordinator - Prof. A. Dasgupta

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Transverse Vibrations of Strings - I
Lecture 2 - Transverse Vibrations of Strings - II
Lecture 3 - Axial and Torsional Vibrations of Bars
Lecture 4 - Variational Formulation - I
Lecture 5 - Variational Formulation - II
Lecture 6 - Modal Analysis - I
Lecture 7 - Modal Analysis - II
Lecture 8 - Properties of the Eigenvalue Problem
Lecture 9 - Modal Analysis
Lecture 10 - Modal Analysis
Lecture 11 - The Initial Value Problem
Lecture 12 - Forced Vibration Analysis - I
Lecture 13 - Forced Vibration Analysis - II
Lecture 14 - Forced Vibration Analysis - III
Lecture 15 - Damping in Structures - I
Lecture 16 - Damping in Structures - II
Lecture 17 - Beam Models - I
Lecture 18 - Beam Models - II
Lecture 19 - Modal Analysis of Beams
Lecture 20 - Application of Modal Solution
Lecture 21 - Approximate Methods
Lecture 22 - Topics in Beam Vibrations - I
Lecture 23 - Topics in Beam Vibrations - II
Lecture 24 - Dynamics of Curved Beams
Lecture 25 - Vibrations of Rings and Arches - I
Lecture 26 - Vibrations of Rings and Arches - II
Lecture 27 - Dynamics of Membranes
Lecture 28 - Vibrations of Rectangular Membranes
Lecture 29 - Vibrations of Circular Membranes - I

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- Lecture 30 - Vibrations of Circular Membranes - II
- Lecture 31 - Dynamics of Plates
- Lecture 32 - Vibrations of Rectangular Plates
- Lecture 33 - Vibrations of Circular Plates
- Lecture 34 - Special Problems in Plate Vibrations - I
- Lecture 35 - Special Problems in Plate Vibrations - II