

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

NPTEL Video Course - Aerospace Engineering - NOC:Vibration and Structural Dynamics

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Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction
Lecture 2 - Undamped Free Vibration
Lecture 3 - Damped Free Vibration
Lecture 4 - Damped Free Vibration (Continued...)
Lecture 5 - Damped Free Vibration (Continued...)
Lecture 6 - Force Vibration
Lecture 7 - Harmonic Loading
Lecture 8 - Harmonic Loading (Continued...)
Lecture 9 - Harmonic Loading (Continued...)
Lecture 10 - Harmonic Loading (Continued...)
Lecture 11 - Impulse Load and Arbitrary Load
Lecture 12 - Impulse Load and Arbitrary Load (Continued...)
Lecture 13 - MDOF, 2-Dof System
Lecture 14 - Normal Mode of Vib
Lecture 15 - Natural Frequency and Mode Shapes
Lecture 16 - Mode Shapes of MDOF
Lecture 17 - Mode Shapes and Free Vibration Response of MDOF
Lecture 18 - Example on MDOF
Lecture 19 - Example on MDOF (Continued...)
Lecture 20 - Modal Expansion Theorem, Generalized Coordinate
Lecture 21 - Examples on Modal Analysis
Lecture 22 - Damping
Lecture 23 - Rigid Body Modes
Lecture 24 - Numerical Time Integration
Lecture 25 - Continuous System
Lecture 26 - Axial Vibration of Bar
Lecture 27 - Axial Vibration of Bar (Continued...)
Lecture 28 - Bending Vibration in Beam
Lecture 29 - Bending Vibration in Beam (Continued...)

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- Lecture 30 - Bending Vibration in Beam (Continued...)
- Lecture 31 - Modal Analysis
- Lecture 32 - Modal Analysis (Continued...)
- Lecture 33 - Modal Analysis of Continuous System
- Lecture 34 - Modal Analysis of Continuous System (Continued...)
- Lecture 35 - Approximate Method
- Lecture 36 - Approximate Methods (Continued...)
- Lecture 37 - Collocation Method
- Lecture 38 - Analytical Methods
- Lecture 39 - Analytical Methods (Continued...)
- Lecture 40 - Analytical Methods (Continued...)