Mindluster Platform

About the course Vibration of Continuous Systems

Vibration of Continuous course in hindi, In this course we explore the dynamics of continuous structures and study their vibrational behavior and applications.

Engineering Category's Courses

Course Lesson(39)

Lesson 1 : **Vibration of Continuous Systems Intro Video**

Lesson 2 : **Lec 2 Time Domain Analysis of Linear System Harmonic input**

Lesson 3 : **Lec 3 Time Domain Analysis of Linear System â€“ Arbitrary Input**

Lesson 4 : **Lec 4 Transformed technique in vibration of linear system**

Lesson 5 : **Lec 5 Formulation of problem Equilibrium Approach**

Lesson 6 : **Lec 6 Formulation of problem by Energy Principle**

Lesson 7 : **Lec 7 Hamilton s principles for formulating vibration problems**

Lesson 8 : **Lec 8 Lagrange s equation for formulating vibration problems**

Lesson 9 : **Lec 9 One Dimensional Wave Equation**

Lesson 10 : **Lec 10 D Alembert s Solution of the Wave Equation**

Lesson 11 : **Lec 11 Transverse Vibration of String**

Lesson 12 : **Lec 12 Forced Transverse Vibration of String**

Lesson 13 : **Lec 13 Axial Vibration of Bar**

Lesson 14 : **Lec 14 Torsional Vibration of Bar**

Lesson 15 : **Lec 15 Some typical problems in axial and torsional vibrations**

Lesson 16 : **Lec 1 General Introduction and Modelling of Dynamic Systems**

Lesson 17 : **Lec 16 Transverse vibration of beams**

Lesson 18 : **Lec 17 Natural frequencies and mode shapes of beams with various end conditions**

Lesson 19 : **Lec 18 Free damped transverse vibration analysis of beam**

Lesson 20 : **Lec 19 Forced damped vibration analysis of Euler Bernoulli beam**

Lesson 21 : **Lec 20 Vibration of beams subjected to moving load**

Lesson 22 : **Lec 21 Some special topics on the transverse vibration of beam**

Lesson 23 : **Lec 22 Combination of continuous and lumped parameter system**

Lesson 24 : **Lec 23 State space solutions in vibration problems**

Lesson 25 : **Lec 24 Beam with moving oscillator pulstating force and rolling mass**

Lesson 26 : **Lec 25 Vibration of membrane**

Lesson 27 : **Lec 26 Vibration of Circular membrane**

Lesson 28 : **Lec 27 Vibration of Rectangular plate**

Lesson 29 : **Lec 28 Free vibration of rectangular plates**

Lesson 30 : **Lec 29 Forced vibration of rectangular plates**

Lesson 31 : **Lec 30 Approximate method for vibration analysis**

Lesson 32 : **Lec 31 Rayleigh Ritz method for vibration analysis**

Lesson 33 : **Lec 32 Gallerkin s method and Finite difference method**

Lesson 34 : **Lec 33 System subjected to support excitation**

Lesson 35 : **Lec 34 Response of continuous systems to transient excitations**

Lesson 36 : **Lec 35 Shock spectrum due to half sine pulse**

Lesson 37 : **Lec 36 Numerical Evaluation of Duhamel Integral**

Lesson 38 : **Lec 37 Direct Integration Methods**

Lesson 39 : **Lec 38 Spectral Analysis of structures for earthquake excitation**

Related courses

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