

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

NPTEL Video Course - Mechanical Engineering - NOC:Noise Control in Mechanical Systems

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Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction to Sound
Lecture 2 - Sound and Noise
Lecture 3 - Sound Wave Propagation
Lecture 4 - Harmonic Plane Waves
Lecture 5 - Sound Wave Propagation Numerical
Lecture 6 - Intensity and Power
Lecture 7 - Sound Propagation Through Medium Boundaries
Lecture 8 - Propagation Through Medium Boundaries: Numerical
Lecture 9 - Propagation Through Medium Boundaries: Oblique Incidence
Lecture 10 - Radiation From Common Acoustical Sources - 1
Lecture 11 - Radiation From Common Acoustical Sources - 2
Lecture 12 - Radiation Numerical Problems
Lecture 13 - Time domain analysis of sound signals
Lecture 14 - Time Domain Analysis of sound signals : Numerical
Lecture 15 - Frequency domain analysis of sound signals - 1
Lecture 16 - Octave and one third octave bands
Lecture 17 - Spectrum analysis : Numerical
Lecture 18 - Introduction to human hearing
Lecture 19 - Sound Quality
Lecture 20 - Noise and human health
Lecture 21 - Noise and human health : Numerical
Lecture 22 - Noise regulations and guidelines - 1
Lecture 23 - Noise regulations and guidelines - 2
Lecture 24 - Equipment for noise control engineering - 1
Lecture 25 - Equipment for noise control engineering - 2
Lecture 26 - Considerations in acoustical measurements
Lecture 27 - Noise measurement and instrumentation : Numerical
Lecture 28 - Principles of noise control
Lecture 29 - Noise criteria

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- Lecture 30 - Active noise control - 1
- Lecture 31 - Active noise control - 2
- Lecture 32 - Passive noise control and acoustic materials
- Lecture 33 - Sound barriers
- Lecture 34 - Acoustic enclosures
- Lecture 35 - Sound barriers and enclosures : Numerical
- Lecture 36 - Sound absorbers
- Lecture 37 - Porous fibrous sound absorbers
- Lecture 38 - Sound absorbers : Numerical
- Lecture 39 - Panel sound absorbers
- Lecture 40 - Helmholtz resonators
- Lecture 41 - Numerical Problems on Resonators
- Lecture 42 - Perforated Panel Sound Absorbers
- Lecture 43 - Micro Perforated Panel Sound Absorbers - 1
- Lecture 44 - Micro Perforated Panel Sound Absorbers - 2
- Lecture 45 - Perforated and Micro Perforated Panel Sound Absorbers Numerical
- Lecture 46 - Acoustic Metamaterials
- Lecture 47 - Space Coiling Acoustic Metamaterial - 1
- Lecture 48 - Space Coiling Acoustic Metamaterial - 2
- Lecture 49 - Sonic Crystals - 1
- Lecture 50 - Sonic Crystals - 2
- Lecture 51 - Sonic Crystals - 3
- Lecture 52 - Acoustic Metamaterials Numerical Problems
- Lecture 53 - Noise in Mechanical Systems - 1
- Lecture 54 - Noise in Mechanical Systems - 2
- Lecture 55 - Noise in Mechanical Systems - 3
- Lecture 56 - Case Studies of Noise in Mechanical Systems - 1
- Lecture 57 - Case Studies of Noise in Mechanical Systems - 2
- Lecture 58 - Case Studies of Noise in Mechanical Systems - 3
- Lecture 59 - Case study of HVAC system and Conclusion