

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

NPTEL Video Course - Mechanical Engineering - NOC:Noise Management and Control

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Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Course Overview
Lecture 2 - Introduction
Lecture 3 - Nature Of Sound
Lecture 4 - Beats
Lecture 5 - The Decibel Scale
Lecture 6 - Key Terms in Acoustics
Lecture 7 - Decibel Scale - Part 1
Lecture 8 - Decibel Scale - Part 2
Lecture 9 - Decibel Scale - Part 3
Lecture 10 - Complex Numbers
Lecture 11 - Complex Time Function
Lecture 12 - Linear Systems
Lecture 13 - Transfer Functions
Lecture 14 - Introduction to One Dimensional Wave Equation
Lecture 15 - The Momentum Equation
Lecture 16 - The Continuity Equation and The Gas Law
Lecture 17 - One Dimensional Wave Equation
Lecture 18 - Solution for One Dimensional Wave Equation
Lecture 19 - Transmission Line Equations
Lecture 20 - One Dimensional Example Problems
Lecture 21 - Impedance
Lecture 22 - Pressure Wave Travels in a Closed Tube
Lecture 23 - Standing Wave Formation in a Closed Tube With Rigid Termination
Lecture 24 - Pressure Wave Travels in an Open Tube
Lecture 25 - 1-D sound wave propagation
Lecture 26 - 1-D sound wave propagation
Lecture 27 - Radially propagating sound waves in spherical coordinate system - I
Lecture 28 - Radially propagating sound waves in spherical coordinate system - II
Lecture 29 - Complex impedance for radially propagating sound waves in spherical coordinate system

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- Lecture 30 - Volume velocity - I
- Lecture 31 - Interference of 1-D spherically propagating sound waves - I
- Lecture 32 - Interference of 1-D spherically propagating sound waves - II
- Lecture 33 - Noise sources and introduction to microphones
- Lecture 34 - Classification of microphones - I
- Lecture 35 - Classification of microphones - II
- Lecture 36 - Classification of microphones - III
- Lecture 37 - Microphone Parameters
- Lecture 38 - Understanding microphone specifications
- Lecture 39 - Noise Source
- Lecture 40 - Noise Source
- Lecture 41 - Noise Source
- Lecture 42 - Noise Source
- Lecture 43 - Noise Source
- Lecture 44 - Noise Source
- Lecture 45 - Measuring Sound Power Level - Understanding standard octave bands
- Lecture 46 - Measuring Sound Power Level - Fan noise - Part I
- Lecture 47 - Measuring Sound Power Level - Fan noise - Part II
- Lecture 48 - Measuring Sound Power Level - Fan noise - Part III
- Lecture 49 - Weighting
- Lecture 50 - Noise coming from Motors
- Lecture 51 - Noise coming from Motors and Pumps
- Lecture 52 - Noise coming from Pump and Motor Working Simultaneously
- Lecture 53 - Noise coming from Compressors
- Lecture 54 - Example problems regarding Noise coming from Compressor
- Lecture 55 - Noise Spread Mechanisms
- Lecture 56 - Reverberation time
- Lecture 57 - Reverberation time example problem
- Lecture 58 - Noise from Adjacent Room
- Lecture 59 - Acoustic Enclosures
- Lecture 60 - Acoustic Enclosures - Example Problems
- Lecture 61 - Large acoustical enclosures - I
- Lecture 62 - Large acoustical enclosures - II
- Lecture 63 - Acoustic barriers - I
- Lecture 64 - Acoustic barriers - II
- Lecture 65 - Acoustic barriers - III
- Lecture 66 - Helmholtz resonator - I