

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

NPTEL Video Course - Mechanical Engineering - NOC:Acoustic Metamaterials

Subject Co-ordinator - Prof. Sneha Singh

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction
Lecture 2 - Sound Wave Propagation in Fluid - I
Lecture 3 - Sound Wave Propagation in Fluid - II
Lecture 4 - Sound Wave Propagation in Fluid - III
Lecture 5 - Sound Propagation at Medium Boundaries - I
Lecture 6 - Sound Propagation at Medium Boundaries - II
Lecture 7 - Standing Waves and Modes
Lecture 8 - Sound Signal Analysis - I
Lecture 9 - Sound Signal Analysis - II
Lecture 10 - Principles of Noise Control
Lecture 11 - Acoustic Materials
Lecture 12 - Enclosures
Lecture 13 - Barriers
Lecture 14 - Enclosures and Barriers - Tutorial
Lecture 15 - Sound Absorbing Materials
Lecture 16 - Porous-Fibrous Sound Absorbers
Lecture 17 - Panel Sound Absorbers
Lecture 18 - Helmholtz Resonators
Lecture 19 - Tutorial on Sound Absorbers
Lecture 20 - Perforated Panel Absorbers
Lecture 21 - Microperforated Panel Absorbers - 1
Lecture 22 - Microperforated Panel Absorbers - 2
Lecture 23 - Microperforated Panel Absorbers - 3
Lecture 24 - Introduction to Acoustic Metamaterials - 1
Lecture 25 - Introduction to Acoustic Metamaterials - 2
Lecture 26 - History of Acoustic Metamaterials
Lecture 27 - Applications of Acoustic Metamaterials
Lecture 28 - Membrane Type Acoustic Metamaterials - 1
Lecture 29 - Membrane Type Acoustic Metamaterials - 2

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- Lecture 30 - Membrane Type Acoustic Metamaterials - 3
- Lecture 31 - Membrane Type Acoustic Metamaterials - 4
- Lecture 32 - Advantages and Applications of Membrane Type AMM
- Lecture 33 - Tutorial on Membrane Type AMM
- Lecture 34 - Introduction to Sonic Crystals
- Lecture 35 - Fundamentals of Crystals
- Lecture 36 - Principle of Working of Sonic Crystals - 1
- Lecture 37 - Principle of Working of Sonic Crystals - 2
- Lecture 38 - Tutorial on Sonic Crystals
- Lecture 39 - More on Sonic Crystals and Conclusions