Acoustics

Acoustics Topic Tree from Tamil Nadu State Textbook

1. Introduction

• Sound Waves

2. Sound Waves

- Longitudinal Waves
- Categories of Sound Waves based on Frequencies
- Sound and Light Waves Comparison
- Velocity of Sound Waves
- Factors Affecting the Velocity of Sound

3. Reflection of Sound

- Laws of Reflection
- Reflection in Denser Medium
- Reflection in Rarer Medium
- Reflection on Plane and Curved Surfaces

4. Echoes

- Conditions for Hearing Echoes
- Applications of Echoes
- Measuring Velocity of Sound using Echo Method

5. Applications of Reflection of Sound

- Sound Board
- Ear Trumpet
- Megaphone

6. Doppler Effect

- Definition
- Conditions for No Doppler Effect
- Applications of Doppler Effect