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Point Harmonic Force; 2.2.3 Resonance Modes of Finite Length Beams
2.2.4 Response of a Finite Length Beam to a Harmonic Force
2.3 Vibrations of Plates; 2.3.1 Free Vibrations of an Infinite Plate; 2.3.2
Green's monic Plate Equation and Response of an Infinite Plate to a
Harmonic Excitation; 2.3.3 Harmonic Vibrations of a Plate of Finite
Dimensions: General Definition and Theorems; 2.3.4 Resonance Modes
and Resonance Frequencies of Circular Plates with Uniform Boundary
Conditions; 2.3.5 Resonance Modes and Resonance Frequencies of
Rectangular Plates with Uniform Boundary Conditions
2.3.6 Response of a Plate to a Harmonic Excitation: Resonance Modes
Series Representation
2.3.7 Boundary Integral Equations and the
Boundary Element Method; 2.3.8 Resonance Frequencies of Plates with
Variable Thickness; 2.3.9 Transient Response of an Infinite Plate with
Constant Thickness; 2.4 Vibrations of Cylindrical Shells; 2.4.1 Free
Oscillations of Cylindrical Shells of Infinite Length; 2.4.2 Green's Tensor
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Cylindrical Shell of Finite Dimensions: General Definition and Theorems
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Diaphragms at Both Ends
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Integral Equations and Boundary Element Method; 2.5 Vibrations of
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Acoustic Radiation and Transmission by Thin Structures; 3.1
Introduction
3.2 Sound Transmission Across a Piston in a One-Dimensional
Waveguide

Sommario/riassunto

Sound is produced by vibrations and as such can be dampened or augmented based on materials selection. This title looks at the effects of sound and vibration on thin structures and details how damage may be avoided, acoustical effects created, and sound levels controlled.
