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It discusses numerous damping mechanisms that affect the dynamic behavior of metal alloys, elastomers, and other materials. These include viscoelastic damping, anelastic damping, and magnetoelastic damping. The appendix contains the most comprehensive assembly of material damping data to be

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Author: Benjamin

Joseph Lazan:

Publisher: Pergamon

Press, 1968: Original

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Damping of structures is a very complex phenomenon, which refers to two basic reasons a) material damping b) friction damping at the connections. When a structure is subject to oscillatory deformations the state of the structure can be described by the combination of kinetic and potential energy.

Damping of
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These include viscoelastic damping, anelastic damping, and magnetoelastic damping. The appendix contains the most comprehensive assembly of material damping data to be found in any single source. A very practical text for mechanical engineers concerned with the transient

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response of structures;
from rubber bushings
and tires, to metal
turbine blades and
space-frames.

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Abstract. The state of a structure subject to oscillatory deformation can be described by the combination of kinetic and potential energy. In the case of

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real structures there is also an energy dissipative element as some of the energy is lost per deformation cycle. The energy dissipation is caused by material damping which basically depends on three factors: amplitude of stress, number of cycles and geometry.

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structures -
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Another case in which the effect of damping has a prominent role is when a structure is subjected to a harmonic excitation at a frequency that is close to a natural frequency. Exactly at resonance, the vibration amplitude tends to infinity, unless there is some damping in the system.

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**Damping in
Structural Dynamics:
Theory and Sources**

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Representative
Damping Ratios
System Viscous
Damping Ratio ξ
Metals (in elastic
range) < 0.01
Continuous Metal
Structures 0.02 to 0.04
Metal Structure with
Joints 0.03 to 0.07
Aluminum / Steel
Transmission Lines \approx
0.0004 Small Diameter

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Piping Systems 0.01 to
0.02 Large Diameter
Piping Systems 0.02 to
0.03 Auto Shock
Absorbers ≈ 0.30
Rubber ≈ 0.05 Large
Buildings during
Earthquakes 0.01 to
0.05

DAMPING PROPERTIES OF MATERIALS - Vibrationdata

Damping or internal
friction is one of the
most sensitive

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properties of materials and structures, both at macro and microscopic scale, and it is structures, both at macro and microscopic scale, and it are particularly sensitive to the presence of cracks and micro cracks.

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Possibly the largest
obstacle to the

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incorporation of material damping as a design parameter in structural members is the scarcity of high stiffness-high damping materials. Typically, if a material possesses the stiffness necessary to be considered a structural material, its damping is low.

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However, as the
structural
imperfections widely
exist in structural
members, structural
failure modes and
stability capability

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could be different [7, 8]. Therefore, it is necessary to include the ...

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