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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 found in any single source.

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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 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.

Damping of materials and members in structures - IOPscience

The step from material properties to members with damping properties is outlined. Damping in assemblies such as laminated members, damping in structural joints, damping due to fluids and damping by squeezing are prescribed. Models for damped structures are provided by the Finite Element Method and the Boundary Element Method.

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The material damping is the energy loss caused by the strains within the individual components. This energy dissipation is due to micro-structural changes in the material, see Orban (2011) and...

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It was Nov 10, 1982 when Prof. Federn, Prof. Gaul, Prof. Mahrenholtz, and Dr. Pieper VDI decided to work out a guideline on damping in the VDI/FANAK C13 Committee "Material Damping".

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Concrete Damping Under steady state conditions, internal damping in prestressed concrete members may be less than 1% of critical if the initial prestress is sufficient to prevent tension cracks from developing. If tension cracks are allowed to develop, but on a microscopic scale, damping can be expected of the order of 2% of critical.

DAMPING PROPERTIES OF MATERIALS - Vibrationdata

Damping of materials and members in structures F Orban Department of Mechanical Design. Pollack Mihaly Faculty of Engineering University of Pécs, Pécs, Hungary E-mail: orb@witch.pmmf.hu Abstract. The state of a structure subject to oscillatory deformation can be described by the

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9781441992987-c1 - Tutorial Guideline VDI 3830 Damping 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. Conversely, materials with high damping usually do not possess the stiffness necessary to be

DAMPING AT HIGH HOMOLOGOUS TEMPERATURE L. S. Cook and R. S ...

A damping coefficient is a material property that indicates whether a material will bounce back or return energy to a system. For example, a basketball has a low damping coefficient (a good bounce back). If the bounce is caused by an unwanted vibration or shock, a high damping coefficient in the material will diminish the response.

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