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called material damping. Damping is the conversion of mechanical energy of a vibrating structure into thermal energy. If we want to quantify the level of damping in a structure the absorbed energy per cycle must be determined. By plotting the force versus displacement for a given cycle of motion a hysteresis curve is generated (figure 1).

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The structural damping is associated with energy loss due to friction in joints, screws and semi-rigid joints. Finally, the fluid damping arises from the drag resistance in a fluid, for example, the conversion of kinetic energy of a pendulum to thermal energy into the air.

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Possibly the largest obstacle to the 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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