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The first law of thermodynamics connects the two energy units and allows one to relate heat and work energy or to relate calories and Joules. ‡ Extensive and Intensive Properties. Properties (or state variables) are extensive or intensive. Extensive variables depend on the size of the system such as volume or mass.

# Introduction to the Thermodynamics of Materials

Work: Work is the amount of energy transferred to or from a body or system as a result of forces acting upon the body, causing displacement of the body or parts of it. More specifically, the work done by a particular force is the product of the displacement of the body and the component of the force in the direction of the displacement.

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