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The key concept is that heat is a form of energy corresponding to a definite amount of mechanical work.

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## Thermodynamics — Wikipedia

A large class of theories in continuum mechanics takes as its starting point the balance laws for mass, for linear and angular momenta, and for energy, together with an entropy imbalance that represents the second law of thermodynamics.

## ~~The Mechanics and Thermodynamics of Continua~~

a series of graduate level subjects on the Mechanics of Solids and Structures that included: 2.071: Mechanics of Solid Materials, 2.072: Mechanics of Continuous Media, ... J.L. Ericksen, Introduction to the Thermodynamics of Solids, Chapman and Hall, 1991. M.E. Gurtin, An Introduction to Continuum Mechanics, Academic Press, 1981.

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