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law of thermodynamics is the restatement of conservation of energy. Mathematically, it reads  $Q = \Delta U + W$ , where  $Q$  is the heat energy supplied to the system,  $\Delta U$  is the change in the internal energy, and  $W$  is the work done by the system against external forces.



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positive, the system has gained energy (by heating). If  $W$  is positive, the system has lost energy from doing work on its surroundings.

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