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[Thermodynamics of Information Processing in Small Systems ...](#)

We review a general theory of thermodynamics of information processing. The background of this topic is the recently-developed nonequilibrium statistical mechanics and quantum (and classical) information theory. These theories are closely related to the modern technologies to manipulate and observe small systems: for example, macromolecules and colloidal particles in the classical regime, and quantum-optical systems and quantum dots in the quantum regime.

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Fundamental energy costs for information processing applications have been determined for the first time, after long and intense controversy among researchers, by unifying information theory, measurement theory, and the recently developed theory of nonequilibrium statistical mechanics

[Thermodynamics of Information Processing in Small Systems](#)

This thesis presents a general theory of nonequilibrium thermodynamics for information processing. Ever since Maxwell's demon was proposed in the nineteenth century, the relationship between thermodynamics and information has attracted much attention because it concerns the foundation of the second law of thermodynamics.

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Information thermodynamics sheds fundamental lights on the foundations of thermodynamics and statistical mechanics through the paradox of Maxwell's demon, and has potential applications to information processing in small systems such as nanomachines and nanodevices. The author is grateful to Prof. Masahito Ueda, who was the supervisor of the author in his Ph.D. course, for fruitful discussions

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This thesis presents a general theory of nonequilibrium thermodynamics for information processing. Ever since Maxwell's demon was proposed in the nineteenth century, the relationship between thermodynamics and information has attracted much attention because it concerns the foundation of the second law of thermodynamics.

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By its very nature, the second law of thermodynamics is probabilistic, in that its formulation requires a probabilistic description of the state of a system.