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Thermodynamics is a branch of physics that deals with heat, work, and temperature, and their relation to energy, radiation, and physical properties of matter. The behavior of these quantities is governed by the four laws of thermodynamics which convey a quantitative description using measurable macroscopic physical quantities, but may be explained in terms of microscopic constituents by ...

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Work done by force fields can be done indefinitely slowly, so as to approach the fictive reversible quasi-static ideal, in which entropy is not created in the system by the process. In thermodynamics, non-mechanical work is to be contrasted with mechanical work that is done by forces in immediate contact between the system and its surroundings.

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Dr. Çengel is also the author or coauthor of the widely adopted textbooks Differential Equations for Engineers and Scientists (2013), Fundamentals of Thermal-Fluid Sciences (5th ed., 2017), Fluid Mechanics: Fundamentals and Applications (4th ed., 2018), Thermodynamics: An Engineering Approach (9th ed., 2019), and Heat and Mass Transfer ...

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