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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 measurable macroscopic physical quantities, but may be explained in terms of microscopic constituents by ...

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[Cengel, Y. A. & Boles, M. A. Thermodynamics An Engineering ...](#)

Essential University Physics: Volume 1 (3rd Edition) Wolfson, Richard Publisher Pearson ISBN 978-0-32199-372-4

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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, which requires 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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Dittus-Boelter Equation. For fully developed (hydrodynamically and thermally) turbulent flow in a smooth circular tube, the local Nusselt number may be obtained from the well-known Dittus-Boelter equation.The Dittus Boelter equation is easy to solve but is only valid for a large temperature difference across the fluid and is less accurate for rough tubes (many commercial tubes are rough).

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Mechanism on Convection. In thermal conduction, energy is transferred as heat either due to the migration of free electrons or lattice vibrational waves (ϕ). There is no movement of mass in the direction of energy flow. Heat transfer by conduction is dependent on the temperature difference.Conduction and convection are similar in that both mechanisms require the ...