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The laws of thermodynamics are explained in terms of microscopic constituents by statistical mechanics. Thermodynamics applies to a wide variety of topics in science and engineering, especially physical chemistry, chemical engineering and mechanical engineering.

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Fundamental equations of Thermodynamics (1) The combined first and second law From the first law: $dU = dq + dW$ From the second law: $T dq \leq dS$ Where, for irreversible system $T dq < dS$ and, for reversible system $dq = T dS$ For a closed system in which only reversible pV work is involved $dW = -pdV$ and $T dq = dS$

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Mechanical engineering is that branch of engineering, which is concerned with mechanical and energy systems, along with the intelligent use of modern materials. Mechanical engineers conceive, plan, design and direct the manufacturing, distribution and operation of a wide variety of devices, machines and systems for energy conversion

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Energy (1st law of thermodynamics), the 2nd law of thermodynamics and the property relations. Energy can be viewed as the ability to cause changes. First law of thermodynamics: one of the most fundamental laws of nature is the conservation of energy principle.

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Basic Concepts of Thermodynamics

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MEC 451 - THERMODYNAMICS Faculty of Mechanical Engineering, UiTM 2 The science of energy, that concerned with the ways in which energy is stored within a body. Energy transformations - mostly involve heat and work movements. The Fundamental law is the conservation of energy principle: energy cannot be created or destroyed, but can only be transformed from one form to another.

Thermodynamic Chapter 1 Fundamental Concepts

Department of Mechanical Engineering Dr Zamri. 2. Chapter 1. Basic Bourdon Type Pressure Measuring Devices. 36. Temperature and Zeroth Law of Thermodynamics - A free PowerPoint PPT presentation (displayed as a Flash slide show) on PowerShow.com - id: f7aaf-ZDc1Z

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