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Thermodynamics An Engineering Approach

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

ME. Preview text. 1-1Chapter 1INTRODUCTION AND BASIC CONCEPTSThermodynamics1-1C Classical thermodynamics is based on experimental observations whereas statistical thermodynamicsis based on the average behavior of large groups of particles.1-2C On a downhill road the potential energy of the bicyclist is being converted to kinetic energy, andthus the bicyclist picks up speed.

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