

## Chapter 1 Thermodynamics An Engineering Approach

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Determine the internal energy change of hydrogen, in kJ/kg, as it is heated from 200 to 800 K, using (a) the empirical specific heat equation as a function of temperature (Table A-2c), (b) the  $c_{v,avg}$  value at the average temperature (Table A-2b), and (c) the  $c_{v,avg}$  value at room temperature (Table A-2a)

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### **Determine the internal energy change of hydrogen, in ...**

ME 30. Preview text. 1-1Chapter 1INTRODUCTION AND BASIC CONCEPTSThermodynamics1-1C Classical thermodynamics is based on experimental observations whereas statistical thermodynamics is 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, and thus the bicyclist picks up speed.

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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.

### **Chapter 1 Thermodynamics An Engineering**

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