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Engineering Thermodynamics Solutions Manual 7 First Law of Thermodynamics N.F.E.E Applications 3. During the working stroke of an engine the heat transferred out of the system was 150 kJ/kg of the working substance. If the work done by the engine is 250 kJ/kg, determine the change in

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internal energy and state whether it is decrease or increase.

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Solution:-. If eventually the ice and water have the same mass, then the final state will have 1.02 kg (2.04 kg/2) of each. Thus the mass of the water that changed into ice  $m$  will be the difference of mass of water  $m_w$  and mass of final state  $m_s$ . The change of water at  $0^\circ\text{C}$  to ice at  $0^\circ\text{C}$  is isothermal.

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- 'System': In thermodynamics, the universe can be divided into two parts. One part is the system, the other part is the rest of the universe called the surroundings. System can be classified as (1) isolated system where no mass or energy is transferred across the system boundaries, (2) closed system (system) where only energy is transferred

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