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Thermodynamics is the study of relationship between energy and entropy, which deals with heat and work. It is a set of theories that correlate macroscopic properties that we can measure (such as temperature, volume, and pressure) to energy and its capability to deliver work.

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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. internal energy and state whether it is decrease or increase.

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