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Thermodynamics sounds intimidating, and it can be. However, if you hone in on the most important thermodynamic formulas and equations, get comfortable converting from one unit of physical measurement to another, and become familiar with the physical constants related to thermodynamics, you'll be at the head of the class.

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Internal energy is a principal property of the thermodynamic state, while heat and work are modes of energy transfer by which a process may change this state. A change of internal energy of a system may be achieved by any combination of heat added or removed and work performed on or by the system. ... Advanced Engineering Thermodynamics (4 ed ...

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Like work, heat is a path function and we know that the differentials of path functions are imperfect differentials. If Q is the heat transfer, then the magnitude of heat transfer during the process 1-2 is given by, Note: When heat flows into the system then it is taken as +ve and when heat flows out of the system then it is taken as –ve.

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