
ME 200: Thermodynamics I

Lecture 6: Internal Energy, U , Total Energy, E , and Heat Transfer, Q

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In this Lecture ...

- **Internal Energy, U**
- **Total Energy, E**
- **Heat Transfer, Q**

Internal Energy

Internal Energy (or thermal energy) is some measure of the energy content of a substance.

- It's an extensive property.
- It depends on molecular processes.
- It's magnitude is somewhat proportional to temperature.
- **Symbol: U or u**

