
ME 200: Thermodynamics I

Lecture 12: Specific Heats and Incompressible Substances

Prof. Sojka

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In this Lecture ...

- **We will study:**
 - **Specific Heats**
 - **Incompressible Substances**

Specific Heats

- **Specific heats** used to be called **heat capacities**.
- **Physical description:** The increase in energy storage (heat) a body undergoes when its temperature rises by 1 degree.
- Particularly useful for thermodynamic calculations involving the ideal gas model.
- **Units** of kJ/kg-K , $\text{kJ/kg-}^\circ\text{C}$, $\text{Btu/lbm-}^\circ\text{F}$, and $\text{Btu/lbm-}^\circ\text{R}$.