Lec 18: Isentropic processes, *TdS* relations, entropy changes

- For next time:
  - Read: § 7-2 to 7-9
  - Group project subject selection due on November 3, 2003

- Outline:
  - Entropy generation and irreversible processes
  - Entropy as a property
  - Entropy changes for different substances

- Important points:
  - Entropy is a property of a system – it is not conserved and is generated by irreversible processes
  - Know how to identify an isentropic processes
  - Know how to use the tables to find values for entropy

Recall we had **entropy**

$$s_2 - s_1 = \int_1^2 \left(\frac{\delta q}{T} \right)_{\text{int rev}}$$

Units are $\frac{kJ}{kg \cdot K}$ or $\frac{Btu}{lb_m \cdot R}$