Overview—Schroeder, An introduction to Thermal Physics

## | Fundamentals

- Inergy in thermal physics: The ideal gas. Heat and work.
- The second law: Why do many processes only happen in one direction and not the reverse? Define entropy.
- Interactions and implications: What is temperature really? Define T from entropy. The thermodynamic identity.

## II Thermodynamics

- **9** Engines and refrigerators: Maximum efficiency (from the second law).
- Free energy and chemical thermodynamics: Batteries and, fuel cells. Phase transformations.

## III Statistical mechanics

Chapter 6-8, next course...though they now use another textbook

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