

## Thermodynamics Study Guide

Equations that you need to know:

$$PV = nRT = Nk_B T \quad (\text{ideal gas law})$$

$$\text{KE} = \frac{3}{2} k_B T \quad (\text{translational energy of gas molecules})$$

$$Q = mc \Delta T \quad (\text{def. of specific heat capacity})$$

$$Q = mL \quad (\text{def. of latent heat})$$

$$\Delta U = Q - W \quad (\text{first law / energy conservation})$$

$$W = P \Delta V = \text{area under } P\text{-}V \text{ graph} \quad (\text{work done during expansion})$$

$$\Delta S = \frac{Q}{T} \quad (\text{increase in entropy due to heat input})$$

$$\text{engine efficiency} = \frac{\text{benefit}}{\text{cost}} = \frac{W_{\text{net}}}{Q_h}$$

$$\text{refrigerator coef. of performance} = \frac{\text{benefit}}{\text{cost}} = \frac{Q_c}{W_{\text{net}}}$$

I'll give you the formulas for thermal expansion, heat conduction, and radiation:

$$\frac{\Delta L}{L_0} = \alpha \Delta T \quad \frac{\Delta V}{V_0} = \beta \Delta T \quad \frac{Q}{\Delta t} = \frac{k_t A (T_h - T_c)}{\Delta x} \quad \frac{Q}{\Delta t} = e \sigma A T^4$$

You should understand the following terms/concepts:

- temperature
- thermal equilibrium
- ideal gas
- mole
- rms speed
- phase transformation
- heat
- work
- conduction
- convection
- radiation
- isothermal
- adiabatic
- entropy
- second law of thermodynamics

Finally, you should know the approximate numerical values of the following: room temperature in kelvin; atmospheric pressure in  $\text{N/m}^2$ ; the number of liters in a  $\text{m}^3$ ; the gas constant; Avogadro's number; Boltzmann's constant; and the number of joules in a calorie (i.e., the specific heat capacity of water).

# Thermodynamics Study Guide

**CH Cherryholmes**



## **Thermodynamics Study Guide:**

## Reviewing **Thermodynamics Study Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Thermodynamics Study Guide**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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