

PHYS2080 Equation Sheet

Thermodynamics

$$\sigma = 5.67 \times 10^{-8} \text{ W m}^{-2} \text{ K}^{-4}$$

$$k_B = 1.38 \times 10^{-23} \text{ J/K}$$

$$R = 8.31 \text{ J/(mol.K)}$$

$$T_K = T_C + 273 \text{ K,}$$

$$\Delta T_K = \Delta T_C$$

$$T_F = \frac{9}{5} T_C + 32^\circ \text{F,}$$

$$T_C = \frac{5}{9} (T_F - 32)$$

$$\Delta L = \alpha L_0 \Delta T$$

$$\Delta A \approx 2\alpha A_0 \Delta T$$

$$\Delta V = \beta V_0 \Delta T \approx 3\alpha V_0 \Delta T$$

$$P_{\text{conduction}} = \frac{Q}{\Delta t} = k \frac{A}{l} (T_{\text{hot}} - T_{\text{cold}})$$

$$P_{\text{radiated}} = \frac{Q}{\Delta t} = \sigma e A T^4$$

$$PV = nRT,$$

$$nR = Nk_B$$

$$n = \frac{m}{M} = N/N_A$$

$$Q = mc\Delta T$$

$$Q = \pm mL$$

$$\text{At constant pressure: } Q = nC_P \Delta T$$

$$\text{At constant volume: } Q = nC_V \Delta T$$

$$C_P = C_V + R$$

$$K_{\text{avg,translational}} = \frac{3}{2} k_B T$$

$$K_{\text{tot}} = \frac{3}{2} Nk_B T = U \text{ (monoatomic gas)}$$

$$v_{\text{rms}} = \sqrt{\frac{3RT}{M}} = \sqrt{\frac{3k_B T}{m}}$$

$$v_{\text{avg}} = \sqrt{\frac{8RT}{\pi M}}$$

$$v_{\text{mp}} = \sqrt{\frac{2RT}{M}}$$

$$\Delta U = Q - W$$

$$\text{Isobaric process: } W = P\Delta V$$

$$\text{Isochoric process: } W = 0$$

$$\text{Isothermal process: } W = nRT \ln \frac{V_f}{V_i} = Nk_B T \ln \frac{V_f}{V_i} = P_i V_i \ln \frac{V_f}{V_i} = P_f V_f \ln \frac{V_f}{V_i}$$

$$PV = \text{constant}$$

$$PV^\gamma = \text{constant}$$

$$\gamma = \frac{C_P}{C_V}$$

$$W = Q_h - Q_c$$

$$e = W/Q_h = 1 - \frac{|Q_c|}{Q_h}$$

$$e_{\text{Carnot}} = 1 - \frac{T_C}{T_H}$$

$$\text{COP: } K_{\text{Cooling}} = \frac{Q_c}{W_{\text{motor}}} = \frac{Q_c}{|Q_h| - Q_c}$$

$$K_{\text{Heating}} = \frac{|Q_h|}{W_{\text{motor}}} = \frac{|Q_h|}{|Q_h| - Q_c}$$

$$\text{Carnot COP } K_{\text{Carnot,Heating}} = \frac{T_h}{T_h - T_c}$$

$$K_{\text{Carnot,Cooling}} = \frac{T_c}{T_h - T_c}$$

Basic Geometry

$$A_{\text{sphere}} = 4\pi R^2$$

$$A_{\text{cube}} = 6a^2$$

$$A_{\text{triangle}} = \frac{1}{2} bh$$

$$V_{\text{cylinder}} = \pi R^2 h$$

$$V_{\text{sphere}} = \frac{4}{3} \pi R^3$$

$$V_{\text{cube}} = a^3$$

Thermodynamics 3rd Sem Notes Pdf

Mark Steyvers



Thermodynamics 3rd Sem Notes Pdf:

The book delves into Thermodynamics 3rd Sem Notes Pdf. Thermodynamics 3rd Sem Notes Pdf is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Thermodynamics 3rd Sem Notes Pdf, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
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 - Chapter 4: Thermodynamics 3rd Sem Notes Pdf in Specific Contexts
 - Chapter 5: Conclusion
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