

POWER MACHINES N5
FORMULA SHEET

$$1. \quad Q = W + \Delta U$$

$$2. \quad \Delta U = mC_v\Delta T$$

$$3. \quad Q = mC_v\Delta T$$

$$4. \quad Q = mC_p\Delta T$$

$$5. \quad Q = P_1V_1 \ln \frac{V_2}{V_1}$$

$$6. \quad \Delta S = m \left(C_v \ln \frac{T_2}{T_1} + R \ln \frac{V_2}{V_1} \right)$$

$$7. \quad W = P_1\Delta V$$

$$8. \quad W = P_1V_1 \ln \frac{V_2}{V_1}$$

$$9. \quad W = \frac{P_1V_1 - P_2V_2}{n-1}$$

$$10. \quad W = \frac{P_1V_1 - P_2V_2}{\gamma-1}$$

$$11. \quad R = C_p - C_v$$

$$12. \quad \gamma = \frac{C_p}{C_v}$$

$$13. \quad \frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2}$$

$$14. \quad PV = mRT$$

$$15. \quad P_1V_1 = P_2V_2$$

$$16. \quad P_1V_1^n = P_2V_2^n$$

$$17. \quad \frac{T_2}{T_1} = \left(\frac{P_2}{P_1} \right)^{\frac{n-1}{n}} = \left(\frac{V_1}{V_2} \right)^{n-1}$$

$$18. \quad \frac{T_2}{T_1} = \left(\frac{P_2}{P_1} \right)^{\frac{\gamma-1}{\gamma}} = \left(\frac{V_1}{V_2} \right)^{\gamma-1}$$

$$19. \quad h = h_f + xh_{fg}$$

$$20. \quad h = h_g + C_p\Delta T$$

$$21. \quad h = h_f + h_{fg} = h_g$$

$$22. \quad V_{\text{sup}} = \frac{n-1}{n} \left(\frac{h_{\text{sup}} - 1941}{P} \right)$$

$$23. \quad x = \frac{V_m}{V_g}$$

$$24. \quad x = \frac{M}{M+m}$$

$$25. \quad U = H - PV$$

$$26. \quad gZ_1 + U_1 + P_1V_1 + \frac{1}{2}C_1^2 + Q =$$

$$gZ_2 + U_2 + P_2V_2 + \frac{1}{2}C_2^2 + W$$

$$27. \quad \eta = \frac{\dot{m}_s(h_2 - h_3)}{\dot{m}_f CV}$$

$$28. \quad EE = \frac{\dot{m}_s(h_2 - h_1)}{\dot{m}_f 2257}$$

$$29. \quad p = (B_m \pm M_m) \frac{101.325}{760}$$

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Key Formula Sheet David F. Groebner, 2004-01-07

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