

Equations (Continued)

Energy: Work

$$W = F \cdot d$$

W = work
F = force
d = distance

Power

$$P = \frac{E}{t} = \frac{W}{t}$$

$$P = \frac{\tau \cdot \text{rpm}}{5252}$$

P = power
E = energy
W = work
t = time
 τ = torque
rpm = revolutions per minute

Efficiency

$$\text{Efficiency (\%)} = \frac{P_{\text{out}}}{P_{\text{in}}} \cdot 100\%$$

P_{out} = useful power output
 P_{in} = total power input

Energy: Potential

$$U = mgh$$

U = potential energy
m = mass
g = acceleration due to gravity
h = height

Energy: Kinetic

$$K = \frac{1}{2}mv^2$$

K = kinetic energy
m = mass
v = velocity

Energy: Thermal

$$Q = mc\Delta T$$

Q = thermal energy
m = mass
c = specific heat
 ΔT = change in temperature

Fluid Mechanics

$$P = \frac{F}{A}$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad (\text{Charles' Law})$$

$$\frac{P_1}{T_1} = \frac{P_2}{T_2} \quad (\text{Gay-Lussac's Law})$$

$$P_1V_1 = P_2V_2 \quad (\text{Boyle's Law})$$

$$Q = Av$$

$$A_1v_1 = A_2v_2$$

$$\text{Horsepower} = \frac{QP}{1714}$$

absolute pressure = gauge pressure
+ atmospheric pressure

P = absolute pressure
F = Force
A = Area
V = volume
T = absolute temperature
Q = flow rate
v = flow velocity

Mechanics

$$s = \frac{d}{t} \quad (\text{where acceleration} = 0)$$

$$v = \frac{d}{t} \quad (\text{where acceleration} = 0)$$

$$a = \frac{v_f - v_i}{t}$$

$$X = \frac{v_i \sin(2\theta)}{-g}$$

$$v = v_0 + at$$

$$d = d_0 + v_0t + \frac{1}{2}at^2$$

$$v^2 = v_0^2 + 2a(d - d_0)$$

$$\tau = dF \sin \theta$$

s = speed
v = velocity
a = acceleration
X = range
t = time
d = distance
g = acceleration due to gravity
d = distance
 θ = angle
 τ = torque
F = force

Electricity

Ohm's Law
 $V = IR$

$$P = IV$$

$$R_T \text{ (series)} = R_1 + R_2 + \dots + R_n$$

$$R_T \text{ (parallel)} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \dots + \frac{1}{R_n}}$$

Kirchoff's Current Law

$$I_T = I_1 + I_2 + \dots + I_n$$

$$\text{or } I_T = \sum_{i=1}^n I_i$$

Kirchoff's Voltage Law

$$V_T = V_1 + V_2 + \dots + V_n$$

$$\text{or } V_T = \sum_{i=1}^n V_i$$

V = voltage
 V_T = total voltage
I = current
 I_T = total current
R = resistance
 R_T = total resistance
P = power

Thermodynamics

$$P = Q' = AU\Delta T$$

$$P = \frac{Q}{\Delta t}$$

$$U = \frac{k}{R} = \frac{k}{L}$$

$$P = \frac{kA\Delta T}{L}$$

$$A_1v_1 = A_2v_2$$

$$P_{\text{net}} = cAe(T_2^4 - T_1^4)$$

P = rate of heat transfer
Q = thermal energy
A = Area of thermal conductivity
U = coefficient of heat conductivity
(U-factor)
 ΔT = change in temperature
 Δt = change in time
R = resistance to heat flow (R-value)
k = thermal conductivity
v = velocity
 P_{net} = net power radiated
 $c = 5.6696 \times 10^{-8} \frac{\text{W}}{\text{m}^2 \text{K}^4}$
e = emissivity constant

Essential Engineering Equations

Michael Hoelscher



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