Equations (Continued)

Energy: Work

$W = F \cdot d$

W = work
F = force
d = distance

Power

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

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

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

Efficiency

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

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

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

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

$\frac{P_1}{T_1} = \frac{P_2}{T_2}$ (Guy-Lussanc's Law)

$P_1V_1 = P_2V_2$ (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

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

$v = \frac{d}{t}$ *(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

$V = IR$

$P = IV$

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

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

Kirchhoff's Current Law

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

or $I_T = \sum_{n=1}^{n} I_n$

Kirchhoff's Voltage Law

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

or $V_T = \sum_{n=1}^{n} V_n$

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

Thermodynamics

$P = Q' = AU\Delta T$

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

$U = \frac{1}{R} = \frac{k}{L}$

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

$A_1v_1 = A_2v_2$

$P_{net} = \sigma Ae(T_2^4 - T_1^4)$

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
$\sigma = 5.6696 \times 10^{-8} \frac{W}{m^2 \cdot K^4}$
e = emissivity constant

Essential Engineering Equations

J Elliott

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