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

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

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

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

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

$$Q = Av$$

$$A_1V_1 = A_2V_2$$

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

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

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

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

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

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

$$v = v_o + at$$

$$d = d_o + v_o t + \frac{1}{2}at^2$$

$$v^2 = v_o^2 + 2a(d - d_o)$$

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

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
$$I_T = I_1 + I_2 + \cdots + I_n$$
$$\text{or } I_T = \sum_{k=1}^{n} I_k$$

Kirchhoff's Voltage Law
$$V_T = V_1 + V_2 + \cdots + V_n$$
$$\text{or } V_T = \sum_{k=1}^{n} V_k$$

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

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section on gas dynamics since in spite of being applied in nature it is regarded by many as basic more than applied The last chapter of Part A and chapter five of Part B cover some important engineering applications of the principles given apriori Each of these applications may be looked upon as a brief exposition of an applied engineering science carrying the title of the application under consideration This was felt imperative to the advantage hopefully to be gained by the student The authors are indebted to their colleague Dr Mohammad S H Emeara of the Mechanical Power Engineering Department Zagazig University for assisting with part of the illustrations and wish to thank him for rendering this assistance in the early stages of preparation of this textbook   **Journal of Basic Engineering** ,1971   **Principles of Heating, Ventilation, and Air Conditioning in Buildings** John W. Mitchell,James E. Braun,2012-03-06 Principles of HVAC in Buildings by J W Mitchell and J E Braun provides foundational knowledge for the behavior and analysis of HVAC systems and related devices The emphasis is on the application of engineering principles and features a tight integration of physical descriptions with a software program that allows performance to be directly calculated with results that provide insight into actual behavior The examples end of chapter problems and design projects are more than exercises they represent situations that an engineer might face in practice and are selected to illustrate the complex and integrated nature of an HVAC system or piece of equipment Coverage of material applicable to the field is broad a Fundamentals section on thermodynamics fluid flow heat transfer and psychrometrics types of HVAC systems and components comfort and air quality criteria a Loads section on weather data processing design heating and cooling loads an Equipment section on air and water distribution systems heating and cooling coils cooling towers refrigeration equipment and a Design and Control section on seasonal energy use control techniques supervisory control the HVAC design process and the rules of thumb often used in design The textbook provides a foundation for students and practicing engineers to design HVAC systems for buildings In addition there is extensive supplemental on line material that provides more in depth and comprehensive treatment of equipment and component modeling and performance that is geared towards current and future equipment design engineers   *The Ohio State Engineer* ,1927   **Engineering Extension Bulletin** ,1919   Essential Math Skills for Engineers Clayton R. Paul,2011-09-20 Just the math skills you need to excel in the study or practice of engineering Good math skills are indispensable for all engineers regardless of their specialty yet only a relatively small portion of the math that engineering students study in college mathematics courses is used on a frequent basis in the study or practice of engineering That s why Essential Math Skills for Engineers focuses on only these few critically essential math skills that students need in order to advance in their engineering studies and excel in engineering practice Essential Math Skills for Engineers features concise easy to follow explanations that quickly bring readers up to speed on all the essential core math skills used in the daily study and practice of engineering These fundamental and essential skills are logically grouped into categories that make them easy to learn while also promoting their long term retention Among the key areas covered are Algebra geometry trigonometry

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