$$\rho = \frac{m}{v} : \frac{kg}{vk^2} Density$$

$$V_{e} = \frac{1}{\rho} : \frac{m^{2}}{kg}$$
 Specific Volume

$$\gamma = \frac{w}{v} = \rho g; \frac{N}{m^3} \ Unit Weight$$

$$Gs = \frac{\rho_1}{\rho_2} = \frac{\rho_0}{\rho_n} = \frac{\gamma_s}{\gamma_m}$$
 Specific gravity water as 4°C $\gamma = 62.5 \ lb/ft^2 = 9.81 \ kN/m^2$ $\rho = 1.94 \ slugs/ft^2 = 1000 \ kg/m^2$ $z = 1$

$$v = \frac{\mu}{\rho}, m^2/s \ \textit{Kinetic Viscosity}$$
 where /
$$\mu = Pa \cdot sec$$

$$\rho = kg/m^2$$
 note:
$$1 \ poise = 1 \ dyne \cdot s/cm^2$$

$$1 \ stroke = 0.0001 \ m^2/s$$

$$1 \ dyne = 10^{-2}N$$

$$p = \frac{4\sigma}{d}, \frac{N}{m}$$
 Surface Tension σ

$$h = \frac{4\sigma \cos \sigma}{5d} \text{ im Capillary}$$

$$h = \frac{4\sigma}{R^2}$$
; m Capillary (non circular)

$$h = \frac{2\sigma \cos \theta}{\rho gr}; m \ Capillary \ (tube)$$

$$l_g = \frac{bh^3}{36}$$
; Triangle

Flow rate

Q = Av: Volume flow rate

M = pQ: Mass flow rate

W = yQ: Weight flow rate

where

Q = discharge; m³/s

A = cross - sectional Area m²

v = velocity; m/s

p = density; kg/m³

y = weight density; N/m²

z: Elevation Head

HYDRAULICS

$$E_B = \frac{\Delta P}{\Delta V}$$
: MPa Bulk Modulus

$$\beta = \frac{1}{E_{\pi}} : \frac{1}{MP\alpha} Compressibility$$

$$\rho = \frac{P}{RT} : Ideal Gas$$
where
$$P = absolute Pressure : Pa$$

$$R = J/kg *K$$

$$T = *K$$

$$R = 207/kg *K 1.716 ib fr/sing *R$$

$$*K = *C + 273 = *F + 460$$

$$\frac{p_1V_1}{T_1} = \frac{p_2V_2}{T_2}: New Ideal Gas$$

$$p_1V_1 = p_2V_2$$
; Isothermal

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} : Isobaric$$

$$c=\sqrt{\frac{E_{o}}{\rho}}=\sqrt{\frac{1}{B_{\rho}}}; Fressure Distorbance$$

 $P_{abs} = P_{page} + P_{acm}$ Pressure abs $P_{acm} = 101.325 \text{ kPa}$

$$p = \frac{F}{A}$$
; stress formula

$$h = \frac{p}{2}$$
, m Pressure Head

$$F = pA_i N$$
 force on plane surface

 $F = pA_1 N$ force on plane surface

$$I_{\theta} = \frac{bh^2}{12}$$
 ; Triangle

$\begin{array}{l} Q_1 = Q_2 = Q_3 \\ A_1v_1 = A_2v_2 = A_2v_3; Incompressible \\ \rho_1A_1v_1 = \rho_2A_2v_2 = \rho_3A_2v_2; Compressible \\ \gamma_1A_1v_1 = \gamma_2A_2v_2 = \gamma_2A_2v_2; Compressible \end{array}$

 $\frac{v^2}{2a}$: Velocity Head

F : Pressure Head

$$E = \frac{v^2}{2g} + \frac{p}{\gamma} + z; Total Head$$

$$T = \frac{PD}{2}$$
: Tensile Force

$$S = \frac{PD}{2\sigma}$$
; Tensile (thickness)

 $P = y_{\omega}h_{1}$ Kpa Pressure

$$Bf = W : Bouyancy Force$$

 $\gamma V = W$
 $Bf = W_{obj} + W_{applied} : Total BF$

$$\tan \theta = \frac{a}{\theta} : Horizontal$$

$$\tan \theta = \frac{a_h}{g \pm a_\nu}$$
: Inclined

$$p = \delta h \left(1 \pm \frac{\alpha}{a}\right)$$
; Vertical

Note: downward upward + acceleration + decceleration -

Rotating Vessels

$$y = \frac{\omega r^2}{2g} : (radius)$$

$$y = \frac{\omega^2 x^2}{2g} : (x \text{ is given})$$
where
$$\omega = Angular \text{ velocity (rpm)}$$

$$y = he(ght)$$

$$note$$

$$1 \text{ rev} = 2\pi \text{ rad}$$

$$1 \frac{rad}{sec} = \frac{30}{\pi} \text{ rpm}$$

$$P = QyE:Power$$

 $\eta = \frac{Output}{Input} \times 100\%:Efficiency$
note
 $1 \text{ kp} = 746 \text{ Watts} = $50/t \cdot lb/sec$
 $1 \text{ watt} = 1 N \cdot m/s = 1 \text{ Joules/sec}$

$$RN = \frac{VD}{v}$$
; Reynolds Number Where $V = V$ elocity $D = inside Diameter$ $v = kinetic Density$ $RN = \frac{\rho VD}{\mu}$ where $\rho = density$ $\mu = dynamic viscosity note $< 2100 - Laminar$ $> 2100 - turbulent$$

Hidrolic Engineering Formulas

Anthony S. Fauci

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