

## EQUATIONS FOR BASIC HYDRAULIC PRINCIPLES

### Lesson 1: Fluid Properties

Force = Mass ( $M$ ) times acceleration ( $a$ ) (Newton's Law)

or

Weight (pounds) = mass (slugs) times gravity ( $g$  in  $\text{ft}/\text{sec}^2$ ),

where acceleration,  $g = 32.2 \text{ ft}/\text{sec}^2$

Density ( $\rho$ ) = Mass of fluid/unit volume, where  $\rho_{\text{water}} = 1.94 \text{ slugs}/\text{ft}^3$

Unit weight ( $\gamma$ ) = weight of fluid/unit volume =  $\rho g$

where  $\gamma_{\text{water}} = 62.4 \text{ pounds}/\text{ft}^3$

Dynamic viscosity of fluid ( $\mu$ , in  $\frac{\text{sec lb}}{\text{ft}^2}$  or  $\frac{\text{slug}}{\text{sec ft}}$ ) is defined by  $\tau = \mu \frac{\partial v}{\partial y}$ , where  $\tau$  is the shearing stress in  $\text{lbs}/\text{ft}^2$ , and the right-hand term is the rate of change of velocity in the fluid.

Kinematic viscosity ( $\nu$ , in  $\text{ft}^2/\text{sec}$ ) =  $\mu/\rho$

Pressure ( $P$ ) = unit weight of water ( $\gamma_{\text{water}}$ ) times depth ( $y$ ),

which says pressure increases linearly with depth.

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### Lesson 2: Forces on Submerged Objects

Force on a vertical rectangular gate:

$$F = \frac{\gamma W D^2}{2}, \text{ where } D = \text{depth, } W = \text{width (triangular pressure prism)}$$

Force is always equal to volume of pressure prism, and acts through the centroid of the pressure prism. Force is also equal to the pressure at the centroid of the gate area times the area of the gate.

To calculate centroid of a complex shape:

$$F_R \cdot y_R = \Sigma(F \cdot y) \text{ or } y_R = \frac{\Sigma(F \cdot y)}{F_R}, \text{ where } F_R \text{ is the resultant force}$$

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### Lesson 3: Similitude and Dimensional Analysis

Reynolds Number,  $Re = V\rho/\mu$  (Velocity, length, density/viscosity)

Froude Number,  $Fr = \frac{V}{\sqrt{gD}}$  where  $V$  = velocity,  $D$  = depth,  $g$  = gravity,  $32.2 \text{ ft}/\text{sec}^2$

# Equations For Basic Hydraulic Principles

**JL Elias**



## **Equations For Basic Hydraulic Principles:**

## Unveiling the Magic of Words: A Review of "**Equations For Basic Hydraulic Principles**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Equations For Basic Hydraulic Principles**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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web nov 9 2023 the name ethan is a boy s name of hebrew origin meaning strong firm ethan is a name that succeeds in being at once classic and fashionable serious and cheery strong and sensitive ethan which was given a big boost via the name of the tom cruise character in the mission impossible film series is still popular but dipping a bit

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web nov 11 2023 ethan is an extremely popular name in the united states as well as abroad especially australia and israel famous ethans include actor ethan hawke and director ethan coen however ethan tends to be a common name among politicians and businessmen including ethan berkowitz and ethan allen brown