

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 ft/sec^2),

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

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

Unit weight (γ) = weight of fluid/unit volume = ρg

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

Dynamic viscosity of fluid (μ , 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 τ is the shearing stress in lbs/ft^2 , and the right-hand term is the rate of change of velocity in the fluid.

Kinematic viscosity (ν , in ft^2/sec) = μ/ρ

Pressure (P) = unit weight of water (γ_{water}) times depth (y),

which says pressure increases linearly with depth.

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:

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

Lesson 3: Similitude and Dimensional Analysis

Reynolds Number, $Re = Vl\rho/\mu$ (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

Clemens Wendtner



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Table of Contents Equations For Basic Hydraulic Principles

1. Understanding the eBook Equations For Basic Hydraulic Principles
 - The Rise of Digital Reading Equations For Basic Hydraulic Principles
 - Advantages of eBooks Over Traditional Books
2. Identifying Equations For Basic Hydraulic Principles
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Equations For Basic Hydraulic Principles
 - User-Friendly Interface
4. Exploring eBook Recommendations from Equations For Basic Hydraulic Principles
 - Personalized Recommendations
 - Equations For Basic Hydraulic Principles User Reviews and Ratings
 - Equations For Basic Hydraulic Principles and Bestseller Lists

5. Accessing Equations For Basic Hydraulic Principles Free and Paid eBooks
 - Equations For Basic Hydraulic Principles Public Domain eBooks
 - Equations For Basic Hydraulic Principles eBook Subscription Services
 - Equations For Basic Hydraulic Principles Budget-Friendly Options
6. Navigating Equations For Basic Hydraulic Principles eBook Formats
 - ePub, PDF, MOBI, and More
 - Equations For Basic Hydraulic Principles Compatibility with Devices
 - Equations For Basic Hydraulic Principles Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Equations For Basic Hydraulic Principles
 - Highlighting and Note-Taking Equations For Basic Hydraulic Principles
 - Interactive Elements Equations For Basic Hydraulic Principles
8. Staying Engaged with Equations For Basic Hydraulic Principles
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Equations For Basic Hydraulic Principles
9. Balancing eBooks and Physical Books Equations For Basic Hydraulic Principles
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Equations For Basic Hydraulic Principles
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Equations For Basic Hydraulic Principles
 - Setting Reading Goals Equations For Basic Hydraulic Principles
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Equations For Basic Hydraulic Principles
 - Fact-Checking eBook Content of Equations For Basic Hydraulic Principles
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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