

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

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

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

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

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:

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

Lesson 3: Similitude and Dimensional Analysis

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

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

Equations For Basic Hydraulic Principles

JG Myers



Equations For Basic Hydraulic Principles:

Hydraulics of Open Channel Flow Hubert Chanson, 2004-05-25 Since the publication of its first edition in 1999 The Hydraulics of Open Channel Flow has been praised by professionals academics students and researchers alike as the most practical modern textbook on open channel flow available This new edition includes substantial new material on hydraulic modelling in particular addressing unsteady open channel flows There are also many new exercises and projects including a major new revision assignment This innovative textbook contains numerous examples and practical applications and is fully illustrated with photographs Dr Chanson introduces the basic principles of open channel flow and takes readers through the key topics of sediment transport hydraulic modelling and the design of hydraulic structures Comprehensive coverage of the basic principles of key application areas of the hydraulics of open channel flow New exercises and examples added to aid understanding Ideal for use by students and lecturers in civil and environmental engineering *Advanced Dam Engineering for Design, Construction, and Rehabilitation* R.B. Jansen, 2012-12-06 The present state of the art of dam engineering has been environmental and political factors which though important attained by a continuous search for new ideas and methods are covered in other publications while incorporating the lessons of the past In the last 20 The rapid progress in recent times has resulted from the years particularly there have been major innovations due combined efforts of engineers and associated scientists as largely to a concerted effort to blend the best of theory and exemplified by the authorities who have contributed to this practice Accompanying these achievements there has been book These individuals have brought extensive knowledge a significant trend toward free interchange among the pro to the task drawn from experience throughout the world professional disciplines including open discussion of prob With the convergence of such distinguished talent the problems and their solutions The inseparable relationships of opportunity for accomplishment was substantial I gratefully hydrology geology and seismology to engineering have acknowledge the generous cooperation of these writers and been increasingly recognized in this field where progress am indebted also to other persons and organizations that is founded on interdisciplinary cooperation have allowed reference to their publications and I have This book presents advances in dam engineering that attempted to acknowledge this obligation in the sections have been achieved in recent years or are under way At where the material is used These courtesies are deeply attention is given to practical aspects of design construction appreciated **The Science of Hydraulics** , Welcome to the forefront of knowledge with Cybellium your trusted partner in mastering the cutting edge fields of IT Artificial Intelligence Cyber Security Business Economics and Science Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage

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Electrical West ,1920 *Journal of Electricity* ,1920 **Basic Hydraulics** P D Smith,2013-10-22 BASIC Hydraulics aims to help students both to become proficient in the BASIC programming language by actually using the language in an important field of engineering and to use computing as a means of mastering the subject of hydraulics The book begins with a summary of the technique of computing in BASIC together with comments and listing of the main commands and statements Subsequent chapters introduce the fundamental concepts and appropriate governing equations Topics covered include principles of fluid mechanics flow in pipes pipe networks and open channels hydraulic machinery and seepage and groundwater flow Each chapter provides a series of worked examples consisting primarily of an introduction in which the general topic or specific problem to be considered is presented A program capable of solving the problem is then given together with examples of the output sometimes for several different sets of conditions Finally in a section headed Program Notes the way the program is constructed and operates is explained and the engineering lessons to be learned from the program output are indicated Each chapter also concludes with a set of problems for the student to attempt This book is mainly intended for the first and second year undergraduate student of civil engineering who will be concerned with the application of fundamental fluid mechanics theory to civil engineering problems *Analytical Principles of the Production of Oil, Gas, and Water from Wells* Stanley Carrollton Herold,1928 **Engineering News** ,1908 **Engineering News-record** ,1916 Indian Engineering ,1926

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