

HYDRAULICS

$$\rho = \frac{m}{v} = \frac{kg}{m^3} \text{ Density}$$

$$V_s = \frac{1}{\rho} = \frac{m^3}{kg} \text{ Specific Volume}$$

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

$$G_s = \frac{\rho_s}{\rho_w} = \frac{\rho_s}{\rho_w} = \frac{\gamma_s}{\gamma_w} \text{ Specific gravity}$$

water at 4°C
 $\gamma = 62.5 \text{ lb/ft}^3 = 9.81 \text{ kN/m}^3$
 $\rho = 1.94 \text{ slugs/ft}^3 = 1000 \text{ kg/m}^3$
 $s = 1$

$$\mu = \frac{\tau}{\frac{du}{dy}}; \text{ pa} \cdot \text{sec Absolute Viscosity}$$

where
 $\tau = \text{lb/ft}^2 \text{ or Pa}$
 $\mu = \text{lb} \cdot \text{sec/ft}^2 \text{ or Pa} \cdot \text{sec}$
 $y = \text{ft or m}$
 $U = \text{ft/s or m/s}$

$$\nu = \frac{\mu}{\rho}; \text{ m}^2/\text{s Kinetic Viscosity}$$

where
 $\mu = \text{Pa} \cdot \text{sec}$
 $\rho = \text{kg/m}^3$
 note:
 1 poise = 1 dyne · s/cm²
 1 stroke = 0.0001 m²/s
 1 dyne = 10⁻⁵ N

$$p = \frac{4\sigma}{d}; \frac{N}{m} \text{ Surface Tension } \sigma$$

$$h = \frac{4\sigma \cos \theta}{\rho g d}; \text{ m Capillary}$$

$$h = \frac{4\sigma}{\rho g d}; \text{ m Capillary (non circular)}$$

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

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

Flow rate

$$Q = Av; \text{ Volume flow rate}$$

$$M = \rho Q; \text{ Mass flow rate}$$

$$W = \gamma Q; \text{ Weight flow rate}$$

where

$$Q = \text{discharge}; \text{ m}^3/\text{s}$$

$$A = \text{cross-sectional Area}; \text{ m}^2$$

$$v = \text{velocity}; \text{ m/s}$$

$$\rho = \text{density}; \text{ kg/m}^3$$

$$\gamma = \text{weight density}; \text{ N/m}^3$$

z : Elevation Head

$$E_s = \frac{\Delta P}{\Delta V}; \text{ MPa Bulk Modulus}$$

$$\beta = \frac{1}{E_s}; \frac{1}{\text{MPa}} \text{ Compressibility}$$

$$\rho = \frac{P}{RT}; \text{ Ideal Gas}$$

where

$$P = \text{absolute Pressure}; \text{ Pa}$$

$$R = \text{J/kg} \cdot \text{K}$$

$$T = \text{K}$$

$$R = 187 \text{ J/kg} \cdot \text{K}; 1.716 \text{ lb} \cdot \text{ft/slug} \cdot \text{K}$$

$$\text{K} = \text{C} + 273 = \text{F} + 460$$

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}; \text{ New Ideal Gas}$$

$$P_1 V_1 = P_2 V_2; \text{ Isothermal}$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2}; \text{ Isobaric}$$

$$c = \sqrt{\frac{E_s}{\rho}} = \sqrt{\frac{1}{\beta \rho}}; \text{ Pressure Disturbance}$$

$$P_{abs} = P_{gauge} + P_{atm} \text{ Pressure abs}$$

$$P_{atm} = 101.325 \text{ kPa}$$

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

$$h = \frac{p}{\gamma}; \text{ m Pressure Head}$$

$$F = pA; \text{ N force on plane surface}$$

$$F = \gamma \bar{h} A \text{ Force}$$

$$\bar{h} = \text{distance from centroid}$$

$$F = pA; \text{ N force on plane surface}$$

$$I_p = \frac{bh^3}{12}; \text{ Triangle}$$

$$Q_1 = Q_2 = Q_3$$

$$A_1 v_1 = A_2 v_2 = A_3 v_3; \text{ Incompressible}$$

$$\rho_1 A_1 v_1 = \rho_2 A_2 v_2 = \rho_3 A_3 v_3; \text{ Compressible}$$

$$\gamma_1 A_1 v_1 = \gamma_2 A_2 v_2 = \gamma_3 A_3 v_3; \text{ Compressible}$$

$$\frac{v^2}{2g}; \text{ Velocity Head}$$

$$\frac{p}{\gamma}; \text{ Pressure Head}$$

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

$$T = \frac{PD}{2}; \text{ Tensile Force}$$

$$s = \frac{PD}{2t}; \text{ Tensile (thickness)}$$

$$P = \gamma_c h; \text{ Kpa Pressure}$$

$$Bf = W; \text{ Bouyancy Force}$$

$$\gamma V = W$$

$$Bf = W_{obj} + W_{applied}; \text{ Total BF}$$

$$\tan \theta = \frac{a}{g}; \text{ Horizontal}$$

$$\tan \theta = \frac{a_h}{g \pm a_v}; \text{ Inclined}$$

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

Note:

downward -
 upward +
 acceleration +
 deceleration -

Rotating Vessels

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

$$y = \frac{\omega^2 x^2}{2g}; \text{ (x is given)}$$

where

ω = Angular velocity (rpm)

y = height

note

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

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

$$P = Q\gamma E; \text{ Power}$$

$$\eta = \frac{\text{Output}}{\text{Input}} \times 100\%; \text{ Efficiency}$$

note

$$1 \text{ hp} = 746 \text{ Watts} = 550 \text{ ft} \cdot \text{lb/sec}$$

$$1 \text{ watt} = 1 \text{ N} \cdot \text{m/s} = 1 \text{ Joules/sec}$$

$$RN = \frac{VD}{\nu}; \text{ Reynolds Number}$$

Where

V = Velocity

D = Inside Diameter

ν = Kinetic Density

$$RN = \frac{VD}{\nu}$$

where

ρ = density

μ = dynamic viscosity

note

< 2100 - Laminar

> 2100 - turbulent

Hidrolic Engineering Formulas

Kazumasa Mizumura



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Applied Mathematics In Hydraulic Engineering: An Introduction To Nonlinear Differential Equations

Kazumasa Mizumura,2011-05-26 Applied Mathematics in Hydraulic Engineering is an excellent teaching guide and reference to treating nonlinear mathematical problems in hydraulic hydrologic and coastal engineering Undergraduates studying civil and coastal engineering as well as analysis and differential equations are started off applying calculus to the treatment of nonlinear partial differential equations before given the chance to practice real life problems related to the fields This textbook is not only a good source of teaching materials for teachers or instructors but is also useful as a comprehensive resource of mathematical tools to researchers [A Textbook on Hydraulic Engineering](#) International Correspondence Schools,1898 **Full Equations Utilities (FEQUTL) Model for the Approximation of Hydraulic Characteristics of**

Open Channels and Control Structures During Unsteady Flow Delbert D. Franz,Charles S. Melching,1997

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ENGINEERING Dr. Ashay Devidas Shende,Dr. Shrikant Arunrao Tekade,Prof. Mahendra Umare,2024-07-02 This book is the culmination of many years of teaching research and consulting It consists of five chapters with coverage including pipeline design design safety design of pumping systems turbines and pumps characteristics open channels hydrology and design of culverts and flow measurement devices Some of the practical examples in this book are derived from field experience with water resource related industries and technologies This text is helpful for researchers learners engineers and as well as students who want to learn about the basic fundamentals of hydrology and hydraulic engineering [Hydraulic Engineering](#)

,1929 **Formulas and Calculations for Petroleum Engineering** Cenk Temizel,Tayfun Tuna,Mehmet Melih Oskay,Luigi Saputelli,2019-08-15 Formulas and Calculations for Petroleum Engineering unlocks the capability for any petroleum engineering individual experienced or not to solve problems and locate quick answers eliminating non productive time spent searching for that right calculation Enhanced with lab data experiments practice examples and a complimentary online software toolbox the book presents the most convenient and practical reference for all oil and gas phases of a given project Covering the full spectrum this reference gives single point reference to all critical modules including drilling production reservoir engineering well testing well logging enhanced oil recovery well completion fracturing fluid flow and even petroleum economics Presents single point access to all petroleum engineering equations including calculation of modules covering drilling completion and fracturing Helps readers understand petroleum economics by including formulas on depreciation rate cashflow analysis and the optimum number of development wells **Handbook of Hydraulics** Ernest

Brater, Horace King, James Lindell, C. Wei, 1996-03-22 Fluid properties and hydraulic units Hydrostatics Fundamental concepts of fluid flow Orifices gates and tubes Weirs Pipes Steady uniform flow in open channels Open channels with nonuniform flow High velocity transitions Wave motion and forces Spatially variable and unsteady flow Measurement of flowing water Computational hydraulics Computer programs in hydraulics **Channel Flow Resistance** Ben Chie Yen, 1992 **Fluid Mechanics, Hydraulics, Hydrology and Water Resources for Civil Engineers** Amithirigala Widhanelage Jayawardena, 2021-01-27 One of the core areas of study in civil engineering concerns water that encompasses fluid mechanics hydraulics and hydrology Fluid mechanics provide the mathematical and scientific basis for hydraulics and hydrology that also have added empirical and practical contents The knowledge contained in these three subjects is necessary for the optimal and equitable management of this precious resource that is not always available when and where it is needed sometimes with conflicting demands The objective of Fluid Mechanics Hydraulics Hydrology and Water Resources for Civil Engineers is to assimilate these core study areas into a single source of knowledge The contents highlight the theory and applications supplemented with worked examples and also include comprehensive references for follow up studies The primary readership is civil engineering students who would normally go through these core subject areas sequentially spread over the duration of their studies It is also a reference for practicing civil engineers in the water sector to refresh and update their skills **Civil Engineering Formulas** Tyler G. Hicks, 2009-10-11 Instant Access to Civil Engineering Formulas Fully updated and packed with more than 500 new formulas this book offers a single compilation of all essential civil engineering formulas and equations in one easy to use reference Practical accurate data is presented in USCS and SI units for maximum convenience Follow the calculation procedures inside Civil Engineering Formulas Second Edition and get precise results with minimum time and effort Each chapter is a quick reference to a well defined topic including Beams and girders Columns Piles and piling Concrete structures Timber engineering Surveying Soils and earthwork Building structures Bridges and suspension cables Highways and roads Hydraulics dams and waterworks Power generation wind turbines Stormwater Wastewater treatment Reinforced concrete Green buildings Environmental protection **Hydraulic Engineering of Dams** Willi H. Hager, Anton J. Schleiss, Robert M. Boes, Michael Pfister, 2020-11-05 Hydraulic engineering of dams and their appurtenant structures counts among the essential tasks to successfully design safe water retaining reservoirs for hydroelectric power generation flood retention and irrigation and water supply demands In view of climate change especially dams and reservoirs among other water infrastructure will and have to play an even more important role than in the past as part of necessary mitigation and adaptation measures to satisfy vital needs in water supply renewable energy and food worldwide as expressed in the Sustainable Development Goals of the United Nations This book deals with the major hydraulic aspects of dam engineering considering recent developments in research and construction namely overflow conveyance and dissipations structures of spillways river diversion facilities during construction bottom and low level outlets as well as intake

structures Furthermore the book covers reservoir sedimentation impulse waves and dambreak waves which are relevant topics in view of sustainable and safe operation of reservoirs The book is richly illustrated with photographs highlighting the various appurtenant structures of dams addressed in the book chapters as well as figures and diagrams showing important relations among the governing parameters of a certain phenomenon An extensive literature review along with an updated bibliography complete this book Fluid Mechanics and Hydraulics Vedat Batu,2024-05-27 Fluid Mechanics and Hydraulics Illustrative Worked Examples of Surface and Subsurface Flows presents the basic principles of fluid mechanics through the use of numerous worked examples Some readers may have interest only in the application parts of various principles without paying too much attention to the derivation details of equations Other readers may have interest both in derivation details and their applications As a result this book is designed to address both needs and most derivation details are included as example problems Therefore those who are not interested in the details of derivations may skip them without interrupting the effective use of the book It serves as an effective learning source for college students and as a teaching tool for instructors with an included solutions manual as well as for practicing professionals in the areas of fluid mechanics and hydraulics **Applied Hydraulics Engineering** Mr. Rohit Manglik,2024-07-24 Examines hydraulic systems in engineering Covers fluid mechanics pump design and applications in water management irrigation and civil infrastructure projects *Industrial Engineering and the Engineering Digest* ,1908 *Hydraulic Engineering '93* Hsieh Wen Shen,S. T. Su,Feng Wen,1993 Proceedings of the National Conference on Hydraulic Engineering held in San Francisco California July 25 30 1993 This collection contains 400 papers discussing the reduction of humanmade and natural disasters through hydraulic engineering Topics include disaster and hazard reduction wetland and tidal hydraulics mechanics of debris flows sediment transport bridge scour three dimensional flow modeling computational hydraulics California water issues and probabilistic approaches to hydraulics Engineers who are involved with these hydraulic engineering issues will find this proceedings an excellent source of information **Selected Water Resources Abstracts** ,1991 Scour and Erosion John Harris,Richard Whitehouse,Sarah Moxon,2016-10-14 Scour and Erosion includes four keynote lectures from world leading researchers cutting across the themes of scour and erosion together with 132 peer reviewed papers from 34 countries covering the principal themes of internal erosion sediment transport grain scale to continuum scale advanced numerical modelling of scour and erosion terrestrial scour and erosion river and estuarine erosion including scour around structures and management of scour erosion and sediment including hazard management and sedimentation in dams and reservoirs Scour and Erosion is ideal for researchers and industry working at the forefront of scour and erosion and has applications in both the freshwater and marine environments Minutes of Proceedings of the Institution of Civil Engineers Institution of Civil Engineers (Great Britain),1895 Vols 39 214 1874 75 1921 22 have a section 2 containing Other selected papers issued separately 1923 35 as the institution s Selected engineering papers

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