

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

**John H. Cushman, Daniel M.
Tartakovsky**



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 Hydraulic Principles and Design Concepts for Submain Units with Multiple Outlet Pipelines Gürol Yıldırım, 2023-06-25 This book provides a state of the art review of recent analytical developments on multi outlets pipe flow hydraulics and alternative hydraulic design concepts For this purpose the book presents simple but sufficiently accurate analytical equations that can be applied directly without needing any numerical technique to achieve whole hydraulic computations The analytical procedures explained here give an opportunity for designers to better understand the basic hydraulic principles of multi outlet pipe flow and demonstrate their applicability and efficiency to design problems of multi outlet sub main lines covering various design configurations

Hydraulics of Pipeline Systems Bruce E. Larock, Roland W. Jeppson, Gary Z. Watters, 1999-09-28 The first of its kind this modern comprehensive text covers both analysis and design of piping systems The authors begin with a review of basic hydraulic principles with emphasis on their use in pumped pipelines manifolds and the analysis and design of large pipe networks After the reader obtains an understanding of how these principles are implemented in computer solutions for steady state problems the focus then turns to unsteady hydraulics These are covered at three levels *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 monumental 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 fessional disciplines including open discussion of prob With the convergence of such distinguished talent the op lems and their solutions The inseparable relationships of portunity for accomplishment was substantial I

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Thermal-Hydraulic Principles and Safety Analysis Guidelines of PWRs and iPWR-SMRs

Christophe Herer,2025-03-03 Thermal Hydraulic Principles and Safety Analysis Guidelines of PWRs and SMRs presents key phenomena models advantages and drawbacks of current methods The book guides the reader through the preparation and review of the thermal hydraulic part of a safety analysis report and equips them with the knowledge to perform thermal hydraulic studies with confidence Starting with an introduction to thermal hydraulics and two phase flows the book covers key models such as the Homogeneous Equilibrium Model and Drift Flux Main Phenomena and associated models including critical flow heat transfer and void fraction and then moves onto cover nuclear safety analyses and code It contains fundamental tools to help readers understand complicated phenomena that can happen in various accidental conditions along with key principles to help readers when using advanced simulation tools This book is suitable for a broad audience including non specialized readers seeking independent advice and technicians or engineers working in nuclear facilities It will provide students in engineering disciplines with a solid understanding of the thermal hydraulics of nuclear reactors and safety which will enable them to work safely and efficiently and drive research forward Presents key phenomena and basic models without complex equations Focuses on DNB and LOCA thermal hydraulic safety analyses Includes simple applications and tools for the evaluation of order of magnitude

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Water

Supply and Distribution Systems Dragan A Savic,John K Banyard,2024-10-25 Water Supply and Distribution Systems

Second edition is a comprehensive introduction to the topic of how water is delivered to homes and businesses throughout the world It covers fundamental concepts and exploring the latest ideas of good practice

Oil and Gas Pipelines and

Piping Systems Alireza Bahadori, 2016-09-10 Oil and Gas Pipelines and Piping Systems Design Construction Management and Inspection delivers all the critical aspects needed for oil and gas piping and pipeline condition monitoring and maintenance along with tactics to minimize costly disruptions within operations Broken up into two logical parts the book begins with coverage on pipelines including essential topics such as material selection designing for oil and gas central facilities tank farms and depots the construction and installment of transportation pipelines pipe cleaning and maintenance checklists Moving over to piping information covers piping material selection and designing and construction of plant piping systems with attention paid to flexibility analysis on piping stress a must have component for both refineries with piping and pipeline systems Heavily illustrated and practical for engineers and managers in oil and gas today the book supplies the oil and gas industry with a must have reference for safe and effective pipeline and piping operations Presents valuable perspectives on pipelines and piping operations specific to the oil and gas industry Provides all the relevant American and European codes and standards as well as English and Metric units for easier reference Includes numerous visualizations of equipment and operations with illustrations from various worldwide case studies and locations **Handbook of Applied**

Hydrologic and Water Resources Engineering Raveendra Kumar Rai, Chandra Shekhar Prasad Ojha, Vijay P. Singh, 2025-02-26 The Handbook of Applied Hydrologic and Water Resources Engineering examines the planning and design of water supply systems flood control works drought mitigation measures navigation facilities and hydraulic structures as well as feasibility and environmental impact studies for various water related projects It is based on the experience gained through consultancy in dealing with various water resources issues and problems teaching and research It serves as a useful resource for graduate students and faculty members in civil engineering agricultural engineering and water resources engineering as well as practicing engineers working in civil environmental and agricultural fields *The Handbook of*

Groundwater Engineering John H. Cushman, Daniel M. Tartakovsky, 2016-11-25 This new edition adds several new chapters and is thoroughly updated to include data on new topics such as hydraulic fracturing CO₂ sequestration sustainable groundwater management and more Providing a complete treatment of the theory and practice of groundwater engineering this new handbook also presents a current and detailed review of how to model the flow of water and the transport of contaminants both in the unsaturated and saturated zones covers the protection of groundwater and the remediation of contaminated groundwater Mathematical Modelling of Sediment Transport and Deposition in Reservoirs - Guidelines and

Case Studies / Modélisation Mathématique du Transport et des Dépôts de Sédiments dans les Réservoirs - Lignes Directrices et Études de Cas Cigb Icold, 2021-06-27 As reservoir sedimentation has proven to be a serious problem in South Africa research in this field has been ongoing for more than 70 years This publication emanates from extensive research which has been undertaken over the past 30 years with the support of the South African Department of Water and Sanitation as well as the South African Water Research Commission A great deal of information has fortunately also been obtained from China

Given the universal nature of hydraulic formulae it is not surprising yet gratifying that Chinese and South African data generally conform to the same mathematical relationships This indicates that these relationships should be applicable in other countries as well Much of the information contained here has been condensed from a more comprehensive publication This ICOLD Bulletin follows on Bulletin 115 Dealing with reservoir sedimentation which gave guidelines for management of reservoirs to limit sedimentation The guidelines on mathematical modelling of sediment transport dynamics in reservoirs in this document can be used during the planning and design of new dams as well as for the management of existing dams Comme la s dimentation dans les r servoirs s est av r e tre un probl me s rieux en Afrique du Sud la recherche dans ce domaine est en cours depuis plus de 70 ans Cette publication mane de la recherche tendue qui a t men e au cours des 30 derni res ann es avec l appui du minist re sud africain de l eau et de l assainissement ainsi que de la commission sud africaine de recherche sur l eau Un grand nombre d informations ont galemment t obtenues de la part de la Chine tant donn le caract re universel de formules hydrauliques il n est pas surprenant mais tr s gratifiant que les donn es chinoises et sud africaines se conforment g n ralemment aux m mes relations math matiques Ceci indique que ces relations devraient tre applicables dans d autres pays galemment Une grande partie de l information contenue ici a t condens e partir d une publication plus compl te Ce bulletin CIGB fait suite au bulletin 115 Trait sur la s dimentation dans les r servoirs qui a donn des directives pour la gestion des r servoirs en vue de limiter la s dimentation Les directives sur la mod lisation math matique de la dynamique de transport des s diments dans les r servoirs de ce pr sent document peuvent tre utilis es lors de la planification et la conception de nouveaux barrages et pour la gestion des barrages existants *Selected Water Resources Abstracts* ,1989 **The Hydraulic Handbook** Trevor M. Hunt,T. Hunt,N. D. Vaughan,N. Vaughan,1996 Hardbound The first point of reference for design engineers hydraulic technicians chief engineers plant engineers and anyone concerned with the selection installation operation or maintenance of hydraulics equipment The hydraulic industry has seen many changes over recent years and numerous new techniques components and methods have been introduced The ninth edition of the Hydraulic Handbook incorporates all these developments to provide a crucial reference manual for practical and technical guidance

Hydropower in the New Millennium B. Honningsvag,G.H. Midttomme,K. Repp,K. Vaskinn,T. Westerren,2020-12-18 The power sector has undergone a liberalization process both in industrialized and developing countries involving market regimes as well as ownership structure These processes have called for new and innovative concepts affecting both the operation of existing hydropower plants and transmission facilities as well as the development and implementation of new projects At the same time a sharper focus is being placed on environmental considerations In this context it is important to emphasize the obvious benefits of hydropower as a clean renewable and sustainable energy source It is however also relevant to focus on the impact on the local environment during the planning and operation of hydropower plants New knowledge and methods have been developed that make it possible to mitigate the local undesirable effects of such projects

Development and operation of modern power systems require sophisticated technology Continuous research and development in this field is therefore crucial to maintaining hydropower as a competitive and environmentally well accepted form of power generation

Proceedings of the Conference on Environmental Modeling and Simulation, April 19-22, 1976, Cincinnati, Ohio Wayne R. Ott,1976 **NBS Special Publication** ,1969 Design of Roadside Drainage Channels James Kincheon Searcy,United States. Bureau of Public Roads. Bridge Division. Hydraulics Branch,1965

Hydraulic Design Series United States. Bureau of Public Roads,1965 *Hydrologic Engineering Analysis Concepts for Cost-shared Flood Damage Reduction Studies* ,1992 *The Handbook of Groundwater Engineering* Jacques W. Delleur,2006-11-16 A complete treatment of the theory and practice of groundwater engineering The Handbook of Groundwater Engineering Second Edition provides a current and detailed review of how to model the flow of water and the transport of contaminants both in the unsaturated and saturated zones covers the production of groundwater and the remediation of contaminated groundwater

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