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COLLEGE OF ENGINEERING

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CE REV – CIVIL ENGINEERING REVIEW

QUIZ NO. 1 HYDRAULICS (FINAL PERIOD)

MULTIPLE CHOICE: Instructions: Read the questions carefully and choose the correct answer. Each correct answer has a corresponding credit of 1 point. Erasures are not allowed. This is a right minus wrong test.

1. An iceberg having a specific gravity of 0.90 floats in salt water having a specific gravity of 1.03. If the volume of the ice above the surface is 500 m^3 , what is the volume of the iceberg?
a. 396 m^3 **b. 3962 m^3** c. 500 m^3 d. cannot be determined

2-3 A vertical cylindrical tank has an orifice at the bottom for its outlet. Diameter of the orifice is 100mm diameter. The tank has a coefficient of discharge of 0.60. Height of the tank is 6m with a diameter of 6m and the tank is full of water at the start.

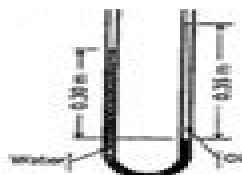
2. Find the time in minutes that water will be drained out equal to 100 m^3 .
a. 20.30min b. 11.6min c. 60.11min **d. 39.79min**
3. Find the time in minutes to lower the water to a depth of 4m.
a. 20.30min b. 11.6min c. 60.11min d. 39.79min

- 30.55m** 4. What is the head loss in meters per kilometer on 150mm diameter pipe having a coefficient of friction of 0.25 if the discharge is $0.0106 \text{ m}^3/\text{sec}$?
a. 6m b. 3.06m c. 5.24m d. 4.46m

5. A liter of water weighs about 9.75N. Compute its mass in kilograms.
a. 1000kg **b. 0.994kg** c. 993.88kg d. 95.65kg
6. What is the value of the surface tension of a small drop of water 0.3mm in diameter which is in contact with air if the pressure within the droplet is 561kPa.
a. 0.042N/m b. 42.075kN/m **c. 42.075 N/m** d. 0.42kN/m
7. If a depth of liquid of 1m causes a pressure of 7kPa, what is the specific gravity of the liquid?
a. **0.714** b. 0.941 c. 0.874 d. 0.79

8. An open tank contains 5.8m of water covered with 3.2m of kerosene ($\gamma = 8 \text{ kN/m}^3$). Find the pressure at the interface.
a. 82.498kPa b. 0 c. 101.325kPa **d. 25.6kPa**

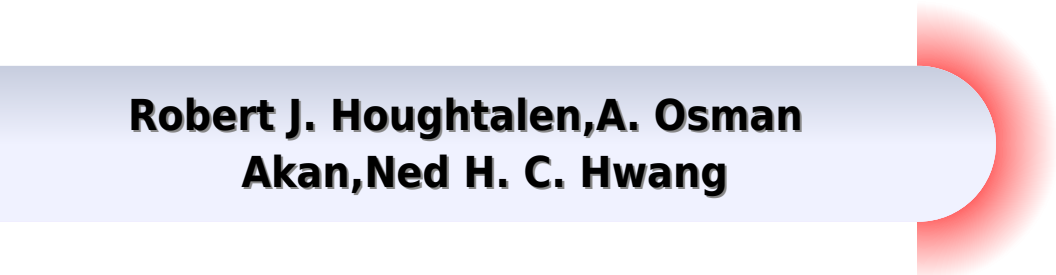
9. A glass U-tube open to the atmosphere at both ends is shown. If the U-tube contains oil and water, determine the specific gravity of oil.



- a. 1.03 **b. 0.86** c. 0.96 d. 13.6

Hydraulics And Hydrology Answer Manual

**Robert J. Houghtalen, A. Osman
Akan, Ned H. C. Hwang**



Hydraulics And Hydrology Answer Manual:

Solutions Manual to Accompany Hydrology and Hydraulic Systems Ram S. Gupta, 2008-01-01 *Urban Hydrology, Hydraulics, and Stormwater Quality* A. Osman Akan, Robert J. Houghtalen, 2003-08-22 A practical introduction on today's challenge of controlling and managing the water resources used by and affected by cities and urbanized communities. The book offers an integrated engineering approach covering the spectrum of urban watershed management, urban hydraulic systems, and overall stormwater management. Each chapter concludes with helpful problems. Solutions Manual available to qualified professors and instructors upon request. Introduces the reader to two popular non-proprietary computer modeling programs: HEC-HMS (U.S. Army Corps of Engineers) and SWMM (U.S. EPA). **Fundamentals of Hydraulic Engineering Systems** Robert J. Houghtalen, A. Osman Akan, Ned H. C. Hwang, 2010. Fundamentals of Hydraulic Engineering Systems, Fourth Edition, is a very useful reference for practicing engineers who want to review basic principles and their applications in hydraulic engineering systems. This fundamental treatment of engineering hydraulics balances theory with practical design solutions to common engineering problems. The author examines the most common topics in hydraulics, including hydrostatics, pipe flow, pipelines, pipe networks, pumps, open channel flow, hydraulic structures, water measurement devices, and hydraulic similitude and model studies. Chapters dedicated to groundwater, deterministic hydrology, and statistical hydrology make this text ideal for courses designed to cover hydraulics and hydrology in one semester. **Hydraulics in Civil and Environmental Engineering Solutions Manual** Andrew John Chadwick, John C. Morfett, John Morfett, 1998. This clear and compact solutions manual provides lecturers adopting *Hydraulics in Civil and Environmental Engineering* with an invaluable support. It complements the new edition of this classical hydraulics textbook and is designed for use on civil engineering and public health engineering courses worldwide. **Elements of Hydrology** Mr. Rohit Manglik, 2024-03-01. EduGorilla Publication is a trusted name in the education sector, committed to empowering learners with high-quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels. **Hydrology** Martin P. Wanielista, Robert Kersten, Ron Eaglin, 1996-09-28. Complete up-to-date coverage of the critical issues of water quality, emphasizing the illustration and application of both hydrologic and economic water management techniques. Using a fundamentals-through-applications approach, the book includes worked examples, case studies, and problems. Current methodologies such as the use of a spreadsheet in hydrology and the use of the Internet in data collection are covered in this text. **Planning Manual** Charles E. Yoe, Kenneth D. Orth, 1996. **Hydrology and Hydraulic Systems** Ram S. Gupta, 1989. **FLUID MECHANICS AND HYDRAULIC MACHINES** GOYAL, MANISH KUMAR, 2015-08-31. This comprehensive book is an earnest endeavour to apprise the readers with a thorough understanding of all important basic concepts and methods of fluid mechanics and hydraulic machines. The text is organised into sixteen chapters, out of which the

first twelve chapters are more inclined towards imparting the conceptual aspects of fluids mechanics while the remaining four chapters accentuate more on the details of hydraulic machines The book is supplemented with solutions manual for instructors containing detailed solutions of all chapter end unsolved problems Primarily intended as a text for the undergraduate students of civil mechanical chemical and aeronautical engineering this book will be of immense use to the postgraduate students of hydraulics engineering water resources engineering and fluids engineering Key features The book describes all concepts in easy to grasp language with diagrammatic representation and practical examples A variety of worked out examples are included within the text illustrating the wide applications of fluid mechanics Every chapter comprises summary that presents the main idea and relevant details of the topics discussed Almost all chapters incorporate objective type questions of previous years GATE examinations along with their answers and in depth explanations Previous years IES conventional questions are provided at the end of most of the chapters A set of theoretical questions and numerous unsolved numerical problems are provided at the chapter end to help the students from practice point of view Every chapter consists of a section Suggested Reading comprising a list of publications that the students may refer for more detailed information

Hydraulics in Civil and Environmental Engineering, Fifth Edition Andrew Chadwick, John Morfett, Martin Borthwick, 2013-02-19 Now in its fifth edition Hydraulics in Civil and Environmental Engineering combines thorough coverage of the basic principles of civil engineering hydraulics with wide ranging treatment of practical real world applications This classic text is carefully structured into two parts to address principles before moving on to more advanced topics The first part focuses on fundamentals including hydrostatics hydrodynamics pipe and open channel flow wave theory physical modeling hydrology and sediment transport The second part illustrates the engineering applications of these fundamental principles to pipeline system design hydraulic structures and river canal and coastal engineering including up to date environmental implications A chapter on computational hydraulics demonstrates the application of computational simulation techniques to modern design in a variety of contexts What's New in This Edition Substantive revisions of the chapters on hydraulic machines flood hydrology and computational modeling New material added to the chapters on hydrostatics principles of fluid flow behavior of real fluids open channel flow pressure surge in pipelines wave theory sediment transport river engineering and coastal engineering The latest recommendations on climate change predictions impacts and adaptation measures Updated references Hydraulics in Civil and Environmental Engineering Fifth Edition is an essential resource for students and practitioners of civil environmental and public health engineering and associated disciplines It is comprehensive fully illustrated and contains many worked examples Spreadsheets and useful links to other web pages are available on an accompanying website and a solutions manual is available to lecturers

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