

# Solutions Manual for Fundamentals of Open Channel Flow, 2e by Glenn Moglen (All Chapters)

## Chapter 1: Introductory Material - Solutions

- 1.1. What slope would lead to a 1% difference between depth in the vertical plane rather than depth measured perpendicular to the channel bottom? Compare this slope to the observation that a channel slope of  $S_0 = 0.01$  m/m is generally considered quite steep for open channel flow.

Solution:

If  $\theta$  is the angle between the horizontal plane and the plane of the channel then,

$$\theta = \cos\left(\frac{x}{1.01x}\right)$$

Thus,

$$\theta = 8.1^\circ$$

or, in terms of rise/run,

$$S = \tan(8.1^\circ) = 0.14 \text{ m/m}$$

Comparing this number to a channel slope of  $S_0 = 0.01$  m/m we see that the slope corresponding to a 1.0 percent difference between depths is more than an order of magnitude larger.

- 1.2. Using Bernoulli's equation, write the energy balance in general terms for flow in an open channel from location 1 to 2 where  $h_L$  is the head loss between these two locations. Simplify the equation by taking the perspective of a point on the water surface at both locations. Note: your solution should show that the pressure term from Bernoulli's equation is not relevant for open channel flow.

Solution:

$$\frac{p_1}{\gamma} + \frac{v_1^2}{2g} + z_1 = \frac{p_2}{\gamma} + \frac{v_2^2}{2g} + z_2 + h_L$$

If we take a point on the water surface at both locations, the  $p_1$  equals  $p_2$  equals atmospheric pressure, and thus these terms may be cancelled from both sides of the equality,

$$\frac{v_1^2}{2g} + z_1 = \frac{v_2^2}{2g} + z_2 + h_L$$

The remaining equation if  $\gamma$  is substituted for  $z$  and if  $h_L$  is set to zero, forms the basis for the specific energy equation which is the focus for Chapter 2.

# Open Channel Flow 2nd Ed Solution Manual

**JG Myers**



## **Open Channel Flow 2nd Ed Solution Manual:**

**Open-Channel Flow** M Hanif Chaudhry, 2007-12-04 Open Channel Flow 2nd edition is written for senior level undergraduate and graduate courses on steady and unsteady open channel flow The book is comprised of two parts Part I covers steady flow and Part II describes unsteady flow The second edition features considerable emphasis on the presentation of modern methods for computer analyses full coverage of unsteady flow inclusion of typical computer programs new problem sets and a complete solution manual for instructors Water and Wastewater Calculations Manual, 2nd Ed.

Shun Lin, C. Lee, 2007-06-26 Quick Access to the Latest Calculations and Examples for Solving All Types of Water and Wastewater Problems The Second Edition of Water and Wastewater Calculations Manual provides step by step calculations for solving a myriad of water and wastewater problems Designed for quick and easy access to information this revised and updated Second Edition contains over 110 detailed illustrations and new material throughout Written by the internationally renowned Shun Dar Lin this expert resource offers techniques and examples in all sectors of water and wastewater treatment Using both SI and US customary units the Second Edition of Water and Wastewater Calculations Manual features Coverage of stream sanitation lake and impoundment management and groundwater Conversion factors water flow calculations hydraulics in pipes weirs orifices and open channels distribution outlets and quality issues In depth emphasis on drinking water treatment and water pollution control technologies Calculations specifically keyed to regulation requirements New to this edition regulation updates pellet softening membrane filtration disinfection by products health risks wetlands new and revised examples using field data Inside this Updated Environmental Reference Tool Streams and Rivers Lakes and Reservoirs Groundwater Fundamental and Treatment Plant Hydraulics Public Water Supply Wastewater Engineering Appendices Macro invertebrate Tolerance List Well Function for Confined Aquifers Solubility Product Constants for Solution at or near Room Temperature Freundlich Adsorption Isotherm Constants for Toxic Organic Compounds Conversion Factors

Applied Mechanics Reviews , 1986 Flow Measurement for Engineers and Scientists Nicholas P. Cheremisinoff, Paul N. Cheremisinoff, 2022-01-26 This book discusses instrumentation and experimental methods for obtaining detailed information on the structure of various types of flows as well as standard process flow instrumentation suitable for industrial control applications It assists research oriented and process engineering personnel *Professional Engineer* , 1985

*Open-channel Flow* M. Hanif Chaudhry, 1993 Explores open channel flow with a focus on water supply hydropower flood control drainage and navigation Steady and unsteady flows are discussed in detail with an emphasis throughout on modern methods of analysis suitable for computer solution **Tables for the Hydraulic Design of Pipes, Sewers and Channels** D. I. H. Barr, 1998 This new edition again includes the extended range of pipe size that covers European standards as well as those for the newer materials now widely adopted in the UK The book's main objective is to aid Colebrook White assessments of resistance in such pipes and in a great variety of free surface circumstances including large rivers *Open Channel*

*Hydraulics, Third Edition* Terry W. Sturm, 2021-07-28 A definitive guide to open channel hydraulics fully updated for the latest tools and methods This thoroughly revised resource offers focused coverage of some of the most common problems encountered by practicing hydraulic engineers and includes the latest research and computing advances Based on a course taught by the author for nearly 40 years Open Channel Hydraulics Third Edition features clear explanations of floodplain mapping flood routing bridge hydraulics culvert design stormwater system design stream restoration and much more Throughout special emphasis is placed on the application of basic fluid mechanics principles to the formulation of open channel flow problems Coverage includes Basic principles Specific energy Momentum Uniform flow Gradually varied flow Hydraulic structures Governing unsteady flow equations and numerical solutions Simplified methods of flow routing Flow in alluvial channels Three dimensional CFD modeling for open channel flows      Shallow Water Hydraulics Oscar Castro-Orgaz, Willi H. Hager, 2019-11-08 This book presents the theory and computation of open channel flows using detailed analytical numerical and experimental results The fundamental equations of open channel flows are derived by means of a rigorous vertical integration of the RANS equations for turbulent flow In turn the hydrostatic pressure hypothesis which forms the core of many shallow water hydraulic models is scrutinized by analyzing its underlying assumptions The book's main focus is on one dimensional models including detailed treatments of unsteady and steady flows The use of modern shock capturing finite difference and finite volume methods is described in detail and the quality of solutions is carefully assessed on the basis of analytical and experimental results The book's unique features include Rigorous derivation of the hydrostatic based shallow water hydraulic models Detailed treatment of steady open channel flows including the computation of transcritical flow profiles General analysis of gate maneuvers as the solution of a Riemann problem Presents modern shock capturing finite volume methods for the computation of unsteady free surface flows Introduces readers to movable bed and sediment transport in shallow water models Includes numerical solutions of shallow water hydraulic models for non hydrostatic steady and unsteady free surface flows This book is suitable for both undergraduate and graduate level students given that the theory and numerical methods are progressively introduced starting with the basics As supporting material a collection of source codes written in Visual Basic and inserted as macros in Microsoft Excel is available The theory is implemented step by step in the codes and the resulting programs are used throughout the book to produce the respective solutions      *Subject Guide to Books in Print* ,1993      *Manual of Practice* ,1944      **Fluid Mechanics** John F. Douglas, 2005 Written for courses in Fluid Mechanics in Civil and Mechanical Engineering this text covers the fundamental principles of fluid mechanics as well as specialist topics in more depth The fundamental material relates to all engineering disciplines that require fluid mechanics As in previous editions this book demonstrates the link between theory and practice with excellent examples and computer programs The programs help students perform 3 types of calculations relatively simple calculations calculations designed to provide solutions for steady state system operation and unsteady flow simulations      **Handbook of**

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