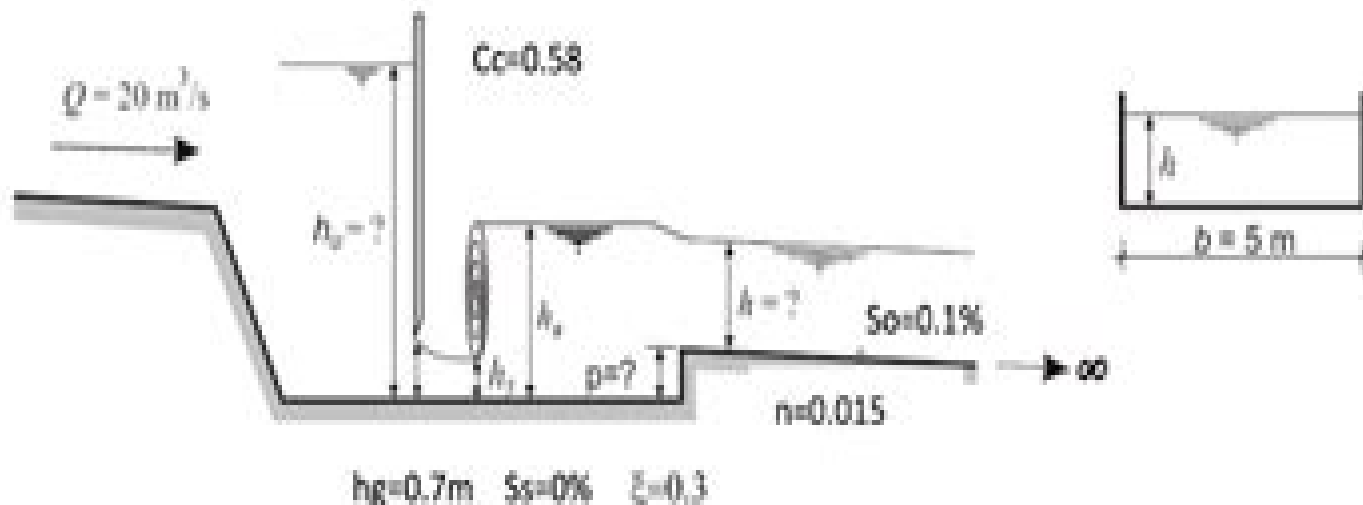


# Open Channel Flow and Hydraulic Structures

## QUESTION 1

A rectangular 5 m wide channel has a sluice gate placed in a stilling (see figure below). The channel has bed slope of  $S_0=0.1\%$ , the Manning roughness coefficient of  $n=0.015$  and no controls downstream from the stilling basin. The flow rate is  $Q=20 \text{ m}^3/\text{s}$ , the gate opening is  $h_g=0.7\text{m}$ , the gate coefficient of contraction is  $C_c=0.6$ , the slope of the stilling basin bed is  $S_s=0\%$ , and the energy loss coefficient at the end of the stilling basin (at the step  $p$ ) is  $\xi=0.3$ , while the hydraulic jump forms immediately after the gate. Calculate the following:

- (i) the depth of the water downstream from the stilling basin,  $h$
- (ii) the depth of the stilling basin,  $p$
- (ii) the depth upstream from the gate,  $h_u$



# Open Channel Hydraulics Solved Problems

**Robert William Angus**



## **Open Channel Hydraulics Solved Problems:**

**Open Channel Hydraulics** A. Osman Akan, 2011-02-24 *Open Channel Hydraulics* is written for undergraduate and graduate civil engineering students and practicing engineers. Written in clear and simple language, it introduces and explains all the main topics required for courses on open channel flows using numerous worked examples to illustrate the key points. With coverage of both introduction to flows, practical guidance to the design of open channels, and more advanced topics such as bridge hydraulics and the problem of scour, Professor Akan's book offers an unparalleled, user-friendly study of this important subject. Clear and simple style suited for undergraduates and graduates alike. Many solved problems and worked examples. Practical and accessible guide to key aspects of open channel flow. *Open Channel Flow* Roland Jeppson, 2010-11-09 A comprehensive treatment of open channel flow. *Open Channel Flow: Numerical Methods and Computer Applications* starts with basic principles and gradually advances to complete problems involving systems of channels with branches, controls, and outflows/inflows that require the simultaneous solutions of systems of nonlinear algebraic equations coupled with differential equations. The book includes a CD that contains a program that solves all types of simple open channel flow problems, the source programs described in the text, the executable elements of these programs, the TK Solver and MathCad programs, and the equivalent MATLAB scripts and functions. The book provides applied numerical methods in an appendix and also incorporates them as an integral component of the methodology in setting up and solving the governing equations. Packed with examples, the book includes problems at the end of each chapter that give readers experience in applying the principles and often expand upon the methodologies used in the text. The author uses Fortran as the software to supply the computer instruction but covers math software packages such as MathCad, TK Solver, MATLAB, and spreadsheets so that readers can use the instruments with which they are the most familiar. He emphasizes the basic principles of conservation of mass, energy, and momentum, helping readers achieve true mastery of this important subject rather than just learn routine techniques. With the enhanced understanding of the fundamental principles of fluid mechanics provided by this book, readers can then apply these principles to the solution of complex real-world problems. The book supplies the knowledge and tools necessary to analyze and design economical and properly performing conveyance systems. Thus, not only is the book useful for graduate students, but it also provides professional engineers the expertise and knowledge to design well-performing and economical channel systems. **A Text Book of Fluid Mechanics and Hydraulic Machines** Bansal, 2005-12-30 **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. **Numerical Modeling in Open Channel Hydraulics**

Romuald Szymkiewicz, 2010-03-10 Open channel hydraulics has always been a very interesting domain of scientific and engineering activity because of the great importance of water for human living. The free surface flow which takes place in the oceans, seas and rivers can be still regarded as one of the most complex physical processes in the environment. The first source of difficulties is the proper recognition of physical flow processes and their mathematical description. The second one is related to the solution of the derived equations. The equations arising in hydrodynamics are rather complicated and except some much idealized cases their solution requires application of the numerical methods. For this reason the great progress in open channel flow modeling that took place during last 40 years paralleled the progress in computer technique, informatics and numerical methods. It is well known that even typical hydraulic engineering problems need applications of computer codes. Thus we witness a rapid development of ready-made packages which are widely disseminated and offered for engineers. However it seems necessary for their users to be familiar with some fundamentals of numerical methods and computational techniques applied for solving the problems of interest. This is helpful for many reasons. The ready-made packages can be effectively and safely applied on condition that the users know their possibilities and limitations. For instance such knowledge is indispensable to distinguish in the obtained solutions the effects coming from the considered physical processes and those caused by numerical artifacts.

Handbook of Hydraulics for the Solution of Hydrostatic and Fluid-flow Problems, 1918

Handbook of Hydraulics for the Solution of Hydraulic Problems Horace Williams King, 1929 *2,500 Solved Problems In Fluid Mechanics and Hydraulics* Jack Evett, Cheng Liu, 1989-01-01 This powerful problem solver gives you 2,500 problems in fluid mechanics and hydraulics fully solved step by step. From Schaum's the originator of the solved problem guide and students favorite with over 30 million study guides sold this timesaver helps you master every type of fluid mechanics and hydraulics problem that you will face in your homework and on your tests from properties of fluids to drag and lift. Work the problems yourself then check the answers or go directly to the answers you need using the complete index. Compatible with any classroom text. Schaum's 2500 Solved Problems in Fluid Mechanics and Hydraulics is so complete it's the perfect tool for graduate or professional exam review.

**Open-channel Hydraulics** Richard H. French, 1985 **Open Channel**

**Hydraulics** Terry W. Sturm, 2001 A comprehensive overview of stormwater and wastewater collection methods from around the world written by leading experts in the field. Includes detailed analysis of system designs, operation, maintenance and rehabilitation. Includes recent research advances and personal computer applications. *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 *Flow in Open Channels, 3e* SUBRAMANYA, K,1982 In this third edition the scope of the book is defined to provide source material in the form of a Text book that would meet all the requirements of the undergraduate course and most of the requirements of a post graduate course in Open channel hydraulics as taught in Indian universities Certain topics have been elaborated and certain portions deleted more solved examples thus overall making the content much more suitable to today s requirements New to this edition Meets all the requirements of the undergraduate course and most of the requirements of a post graduate course in Open Channel Hydraulics as taught in an Indian university The contents of the book which cover essentially all the important basic areas of open channel flow are presented in simple lucid style The book incorporates revision an updation of the text with the inclusion of additional topics and some worked out examples This edition has detailed improved coverage on Flow through culverts Discharge estimation in Compound channels Scour at bridge constrictions Section 10 6 which deals with Negative surges in rapidly varied unsteady flow Section 5 7 4 dealing with Backwater curves in natural channels The book is useful for both undergraduate and postgraduate students taking a course in Flow in Open Channels as well as for students appearing in AMIE examinations Candidates taking Competitive examinations like Central Engineering Services examinations and Central Civil Services examinations will find this book useful in their preparations related to the topic of Water resources engineering Practicing engineers in the domain of water resources engineering will find this book a useful reference source New to the edition Detailed coverage on Flow through culverts Discharge estimation in Compound channels Scour at bridge constrictions Many existing sections have been revised with more precise and better presentations These include substantive improvement to the following Section 10 6 which deals with Negative surges in rapidly varied unsteady flow Section 5 7 4 dealing with Backwater curves in natural channels Major deletions from the previous edition for reasons of being of marginal value include Pruning of Tables 2A 2 at the end of Chapter 2 Table 3A 1 at the end of Chapter 3 and Table 5A 1 of Chapter 5 Section 5 3 dealing with a procedure for estimation of N and M for a trapezoidal channel Pedagogy Each chapter includes a set of worked examples a list of problems for practice and a set of objective questions for clear comprehension of the subject matter The table of problems distribution given at the beginning of problems set in each chapter will be of particular use to teachers to select problems for class work assignments quizzes and examinations **Practical Hydraulics** Melvyn Kay,2007-12-17 Hydraulics has a reputation for being a complex even intimidating discipline Put simply hydraulics is the study of how water and similar fluids behave and can be harnessed for practical use It is one of the fundamental scientific and engineering subjects and many professions demand a working knowledge of its basic concepts yet most hydraulics

textbooks are aimed at readers with a strong engineering or mathematical background Practical Hydraulics approaches the subject from basic principles and demonstrates how these are applied in practice It is clearly written and includes many illustrations and examples It will appeal to a wide range of professionals and students needing an introduction to the subject from farmers irrigating crops to fire crews putting out fires with high pressure water hoses However hydraulics is not just about water Many other fluids behave in the same way and so affect a wide range of people from doctors needing to know how blood flows in veins to car designers wanting to save fuel by reducing drag

**Fundamentals of Open Channel Flow** Glenn E. Moglen, 2022-12-30 This second edition of Fundamentals of Open Channel Flow focuses on theory followed by clearly solved examples and practical computational tools such as spreadsheets and industry standard software It builds on a foundation in fluid mechanics and offers the basics of a first course in open channel flow for senior undergraduates or graduate students energy momentum friction and gradually varied flow both qualitative and quantitative This edition provides more coverage of design applications including culvert design a wider range of channel shapes and an update of the US Corps of Engineers HEC RAS program It shows how a few simple equations can solve a range of basic problems The energy depth and momentum depth relationships are examined graphically and the book's website offers unique animations showing actual flow dynamics of some transient flow problems as well as solutions to end of chapter problems and PowerPoint slides for instructors

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