



Experiment 21.25: Flow Channel

Introduction

An open channel is a duct in which the liquid flows with a free surface exposed to atmospheric pressure. Along the length of the duct, the pressure at the surface is therefore constant and the flow can not be perturbed by external pressures but only by differences in potential energy due to the slope of the surface.

The flow channel is one of the most important tools available for the teaching of hydraulic principles. The flow channel has been designed to allow students a wide range of experiments on water flow in an open channel under different flow conditions and studies the effects of bed profile of various shapes on water flow. It also allows the verification of the Chezy equation and Manning friction factor. In addition studies of 'specific energy-depth' relationships, the effects of various weirs and flumes, hydraulic jump and the determination of hydraulic mean depth can also be carried out.

Flow channel

Flow channel is designed to allow a series of experiments on water flow through a rectangular channel to be conducted. The channel is of rectangular cross section 170mm high x 180mm wide and 2000mm long. The flow channel incorporates a specially designed entry section which incorporates a milling panel fitted with glass spheres, to provide smooth, well established flow conditions at entry to the channel, at the discharge end of the channel an adjustable vane-shaped flap gate is provided which can be used to control the exit flow.

The channel is supported on a steel framework which incorporates a variable height support at the right hand end allowing the slope of the channel to be varied. A measuring point is provided together with a clock dial-type gauge and the calibration is such that a revolution of the clock dial is equivalent to a slope of 1 : 1500.

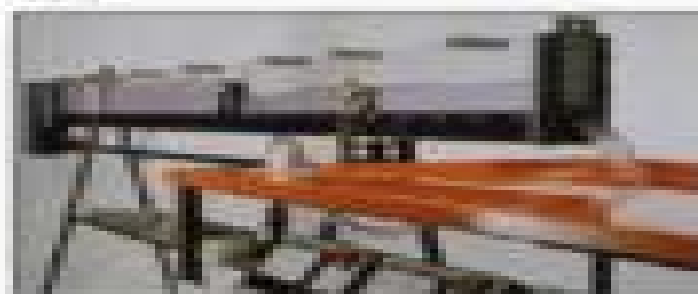


Figure 21.25 Flow Channel, tipped view

Fluid Mechanics Lab Experiment 13 Flow Channel

R. G. Folsom, Edson Homer Taylor



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New Trends in Fluid Mechanics Research F. G. Zhuang, J. C. Li, 2009-04-24 New Trends in Fluid Mechanics Research is the proceedings of the Fifth International Conference on Fluid Mechanics ICFM V it is the primary forum for the presentation of technological advances and research results in the fields of theoretical experimental and computational Fluid Mechanics Following the previous conferences in Beijing 1987 1993 and 1998 and Dalian 2004 organized by the Chinese Society of Theoretical and Applied Mechanics the Scientific Committee for ICFM presents ICFM V to provide a forum for researchers to exchange original ideas and recent advances in Fluid Mechanics and relevant interdisciplinary subjects Topics include flow instability and turbulence aerodynamics and gas dynamics hydrodynamics industrial and environmental fluid mechanics biofluid mechanics geophysical fluid mechanics plasma and magneto hydrodynamics multiphase flows non Newtonian flows and flows in porous media flow of reacting fluid microscale flow and others **Viscoelasticity** Juan De Vicente, 2012-11-07 This book contains a wealth of useful information on current research on viscoelasticity By covering a broad variety of rheology non Newtonian fluid mechanics and viscoelasticity related topics this book is addressed to a wide spectrum of academic and applied researchers and scientists but it could also prove useful to industry specialists The subject areas include theory simulations biological materials and food products among others **Scientific and Technical Aerospace Reports**, 1992-07 **Turbulent Drag Reduction by Surfactant Additives** Feng-Chen Li, Bo Yu, Jin-Jia Wei, Yasuo Kawaguchi, 2012-01-10 Turbulent drag reduction by additives has long been a hot research topic This phenomenon is inherently associated with multifold expertise Solutions of drag reducing additives are usually viscoelastic fluids having complicated rheological properties Exploring the characteristics of drag reduced turbulent flows calls for uniquely designed experimental and numerical simulation techniques and elaborate theoretical considerations Pertinently understanding the turbulent drag reduction mechanism necessities mastering the fundamentals of turbulence and establishing a proper relationship between turbulence and the rheological properties induced by additives Promoting the applications of the drag reduction phenomenon requires the knowledge from different fields such as chemical engineering mechanical engineering municipal engineering and so on This book gives a thorough elucidation of the turbulence characteristics and rheological behaviors theories special techniques and application issues for drag reducing flows by surfactant additives based on the state of the art of scientific research results through the latest experimental studies numerical simulations and theoretical analyses Covers turbulent drag reduction heat transfer reduction complex rheology and the real world applications of drag reduction Introduces advanced testing techniques such as PIV LDA and their applications in current experiments illustrated with multiple diagrams and equations Real world examples of the topic s increasingly important industrial applications enable readers to implement cost and energy saving measures Explains the tools before presenting the research results to give readers coverage of the subject from both theoretical and experimental viewpoints Consolidates interdisciplinary

information on turbulent drag reduction by additives Turbulent Drag Reduction by Surfactant Additives is geared for researchers graduate students and engineers in the fields of Fluid Mechanics Mechanical Engineering Turbulence Chemical Engineering Municipal Engineering Researchers and practitioners involved in the fields of Flow Control Chemistry Computational Fluid Dynamics Experimental Fluid Dynamics and Rheology will also find this book to be a much needed reference on the topic Proceedings of AICCE'19 Fadzli Mohamed Nazri, 2019-11-28 This book gathers the latest research innovations and applications in the field of civil engineering as presented by leading national and international academics researchers engineers and postgraduate students at the AWAM International Conference on Civil Engineering 2019 AICCE 19 held in Penang Malaysia on August 21 22 2019 The book covers highly diverse topics in the main fields of civil engineering including structural and earthquake engineering environmental engineering geotechnical engineering highway and transportation engineering water resources engineering and geomatic and construction management In line with the conference theme Transforming the Nation for a Sustainable Tomorrow which relates to the United Nations 17 Global Goals for Sustainable Development it highlights important elements in the planning and development stages to establish design standards beneficial to the environment and its surroundings The contributions introduce numerous exciting ideas that spur novel research directions and foster multidisciplinary collaborations between various specialists in the field of civil engineering **Selected Water Resources Abstracts** ,1990-07 **A Guide to Undergraduate Science Course and Laboratory Improvements** National Science Foundation (U.S.). Directorate for Science Education, 1979 *NBS Special Publication* ,1965 *Hydraulic Research in the United States* United States. National Bureau of Standards, 1965

Modeling Atmospheric and Oceanic Flows Thomas von Larcher, Paul D. Williams, 2014-11-24 Modeling Atmospheric and Oceanic Flows Insights from Laboratory Experiments and Numerical Simulations provides a broad overview of recent progress in using laboratory experiments and numerical simulations to model atmospheric and oceanic fluid motions This volume not only surveys novel research topics in laboratory experimentation but also highlights recent developments in the corresponding computational simulations As computing power grows exponentially and better numerical codes are developed the interplay between numerical simulations and laboratory experiments is gaining paramount importance within the scientific community The lessons learnt from the laboratory model comparisons in this volume will act as a source of inspiration for the next generation of experiments and simulations Volume highlights include Topics pertaining to atmospheric science climate physics physical oceanography marine geology and geophysics Overview of the most advanced experimental and computational research in geophysics Recent developments in numerical simulations of atmospheric and oceanic fluid motion Unique comparative analysis of the experimental and numerical approaches to modeling fluid flow Modeling Atmospheric and Oceanic Flows will be a valuable resource for graduate students researchers and professionals in the fields of geophysics atmospheric sciences oceanography climate science hydrology and experimental geosciences

Complex Fluid-Flows in Microfluidics Francisco José Galindo-Rosales, 2017-05-26 This monograph contains expert knowledge on complex fluid flows in microfluidic devices The topical spectrum includes but is not limited to aspects such as the analysis experimental characterization numerical simulations and numerical optimization The target audience primarily comprises researchers who intend to embark on activities in microfluidics The book can also be beneficial as supplementary reading in graduate courses

Treatise on Geomorphology, 2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this Treatise on Geomorphology will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth's surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth's diverse surfaces This Treatise on Geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to

geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned

Energy Research Abstracts ,1993 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes *Applied Mechanics Reviews* ,1972

Current Hydraulic Laboratory Research in the United States ,1965 *From Depositional Systems to Sedimentary Successions on the Norwegian Continental Margin* Allard W. Martinus,R. Ravnås,J. A. Howell,R. J. Steel,J. P. Wonham,2014-07-18 The Norwegian Continental Shelf NCS focus of this special publication is a prolific hydrocarbon region and both exploration and production activity remains high to this day with a positive production outlook A key element today and in the future is to couple technological developments to improving our understanding of specific geological situations The theme of the publication reflects the immense efforts made by all industry operators and their academic partners on the NCS to understand in detail the structural setting sedimentology and stratigraphy of the hydrocarbon bearing units and their source and seal The papers cover a wide spectrum of depositional environments ranging from alluvial fans to deepwater fans in almost every climate type from arid through humid to glacial and in a variety of tectonic settings Special attention is given to the integration of both analogue studies and process based models with the insights gained from extensive subsurface datasets *Hydraulic Laboratory Manual* R. G. Folsom,Edson Homer Taylor,1947

Informatics, Networking and Intelligent Computing Jiaying Zhang,2015-05-06 This proceedings volume contains selected papers presented at the 2014 International Conference on Informatics Networking and Intelligent Computing held in Shenzhen China Contributions cover the latest developments and advances in the field of Informatics Networking and Intelligent Computing *Science Course Improvements Projects* National Science Foundation (U.S.),1964 *Physics Briefs* ,1993

Fluid Mechanics Lab Experiment 13 Flow Channel Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Fluid Mechanics Lab Experiment 13 Flow Channel**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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Table of Contents Fluid Mechanics Lab Experiment 13 Flow Channel

1. Understanding the eBook Fluid Mechanics Lab Experiment 13 Flow Channel
 - The Rise of Digital Reading Fluid Mechanics Lab Experiment 13 Flow Channel
 - Advantages of eBooks Over Traditional Books
2. Identifying Fluid Mechanics Lab Experiment 13 Flow Channel
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Fluid Mechanics Lab Experiment 13 Flow Channel
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fluid Mechanics Lab Experiment 13 Flow Channel
 - Personalized Recommendations
 - Fluid Mechanics Lab Experiment 13 Flow Channel User Reviews and Ratings
 - Fluid Mechanics Lab Experiment 13 Flow Channel and Bestseller Lists

5. Accessing Fluid Mechanics Lab Experiment 13 Flow Channel Free and Paid eBooks
 - Fluid Mechanics Lab Experiment 13 Flow Channel Public Domain eBooks
 - Fluid Mechanics Lab Experiment 13 Flow Channel eBook Subscription Services
 - Fluid Mechanics Lab Experiment 13 Flow Channel Budget-Friendly Options
6. Navigating Fluid Mechanics Lab Experiment 13 Flow Channel eBook Formats
 - ePub, PDF, MOBI, and More
 - Fluid Mechanics Lab Experiment 13 Flow Channel Compatibility with Devices
 - Fluid Mechanics Lab Experiment 13 Flow Channel Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fluid Mechanics Lab Experiment 13 Flow Channel
 - Highlighting and Note-Taking Fluid Mechanics Lab Experiment 13 Flow Channel
 - Interactive Elements Fluid Mechanics Lab Experiment 13 Flow Channel
8. Staying Engaged with Fluid Mechanics Lab Experiment 13 Flow Channel
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fluid Mechanics Lab Experiment 13 Flow Channel
9. Balancing eBooks and Physical Books Fluid Mechanics Lab Experiment 13 Flow Channel
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fluid Mechanics Lab Experiment 13 Flow Channel
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fluid Mechanics Lab Experiment 13 Flow Channel
 - Setting Reading Goals Fluid Mechanics Lab Experiment 13 Flow Channel
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fluid Mechanics Lab Experiment 13 Flow Channel
 - Fact-Checking eBook Content of Fluid Mechanics Lab Experiment 13 Flow Channel
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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