



Experiment 11.11: 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 discharge gauge and the calibration is such that a revolution of the clock dial is equivalent to a drop of 1.0mm.

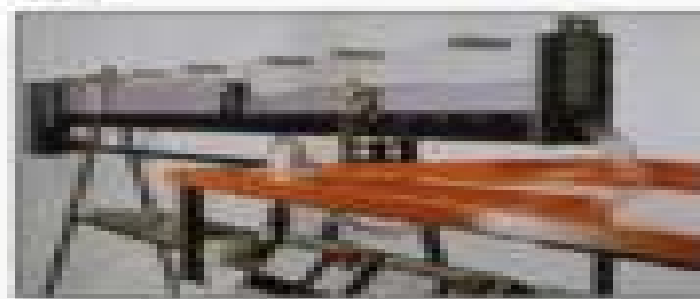



Figure 11.1: Flow Channel: Support view

Fluid Mechanics Lab Experiment 13 Flow Channel

**Allard W. Martinius, R. Ravnås, J. A.
Howell, R. J. Steel, J. P. Wonham**



Fluid Mechanics Lab Experiment 13 Flow Channel:

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

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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 *NBS Special Publication*, 1965 *Hydraulic Research in the United States* United States. National Bureau of Standards, 1965

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Proceedings American Society for Engineering Education. Conference, 1988 *Applied Mechanics Reviews*, 1972

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 *Research and Technology Program Digest* United States. National Aeronautics and Space Administration, **A Guide to Undergraduate Science Course and Laboratory Improvements** National Science Foundation (U.S.). Directorate for Science Education, 1979 **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 *Current Hydraulic Laboratory Research in the United States* , **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 **Hydraulic Laboratory Manual** R. G. Folsom, Edson Homer Taylor, 1947 **Science Course Improvements Projects** National Science Foundation (U.S.), 1964

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