

Flow in Venturi Flume

A venturi flume is placed in the channel in order to measure the volumetric flow as shown in Figure 6. If the depth of flow at point A is $y_A = 2.50$ m and at the throat at point B is $y_B = 2.35$ m, determine the volumetric flow through the channel.

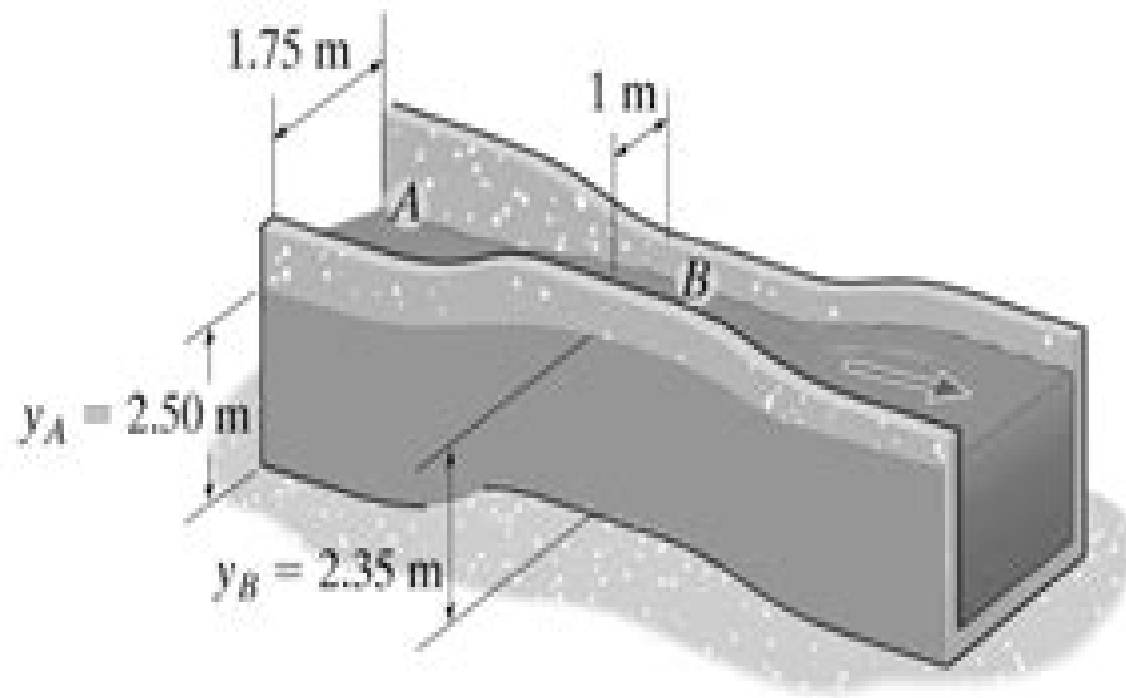


Figure 6: Schematic of a venturi meter in a channel.

Answer(s): $4.8 \text{ m}^3 \text{ s}^{-1}$;

Venturi Flume Experiment Manual

Jicheng Xie



Venturi Flume Experiment Manual:

LABORATORY MANUAL HYDRAULICS AND HYDRAULIC MACHINES R. V. RAIKAR, 2012-09-27 This manual presents 31 laboratory tested experiments in hydraulics and hydraulic machines This manual is organized into two parts The first part equips the student with the basics of fluid properties flow properties various flow measuring devices and fundamentals of hydraulic machines The second part presents experiments to help students understand the basic concepts the phenomenon of flow through pipes and flow through open channels and the working principles of hydraulic machines For each experiment the apparatus required for conducting the experiment the probable experimental set up the theory behind the experiment the experimental procedure and the method of presenting the experimental data are all explained Viva questions with answers are also given In addition the errors arising during recording of observations and various precautions to be taken during experimentation are explained with each experiment The manual is primarily designed for the undergraduate degree students and diploma students of civil engineering mechanical engineering and chemical engineering

Water Measurement Manual ,1985 **Fluid Mechanics and Machinery : Laboratory Manual** A. B. Shinde, *Field manual for research in agricultural hydrology* Donald L. Brakensiek, United States. Science and Education Administration, 1979 **Water Measurement Manual** United States. Bureau of Reclamation, 1967 *Manual for Measurement of Irrigation Water* United States. Bureau of Reclamation, 1947 **Fluid Mechanics Laboratory Manual** John B. Herbich, 1960 **Hydraulic Laboratory Manual** Joseph N. Bradley, 1946 Water Measurement Manual Bureau of Reclamation (U.S.), Department of Agriculture (U.S.), Agriculture Research Service (U.S.), Natural Resources Conservation Service (U.S.), 2016-07-07 This revised manual has three principal purposes The first is to provide water users and districts guidance in selecting managing inspecting and maintaining their water measurement devices The second is to describe the standard methods and devices commonly used to measure irrigation water The third is to acquaint irrigation system operators with a variety of other established but less common methods and with new or special techniques **Field Laboratory Manual on Irrigation and Drainage Engineering** Dr. Vikash Singh , Mr. Shivam Kumar Dwivedi, Dr. Rajat Mishra, Er. Aman Raj, 2025-10-13 Air Force Manual United States. Department of the Air Force, 1959 **The Instrument Manual** , 1953 General Technical Report RMRS , 1998 **Use of Flumes in Measuring Discharge** F. A. Kilpatrick, V. R. Schneider, 1983 **The Instrument Manual** J. T. Miller, 1960 Stream-gaging Stations for Research on Small Watersheds Kenneth G. Reinhart, 1964 Techniques of Water-resources Investigations of the United States Geological Survey , 1984 **Techniques of Water-resources Investigations of the United States Geological Survey: Chapt. B2. Bennet, G.D. Introduction to ground-water hydraulics** Geological Survey (U.S.), 1967 *Experiment Station Record* United States. Office of Experiment Stations, 1926 *Techniques of Water-resources Investigations of the United States Geological Survey: chap. B1. Aquifer-test design observation and data analysis* Geological Survey (U.S.), 1983

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