

Experiment 1: Venturi Flow

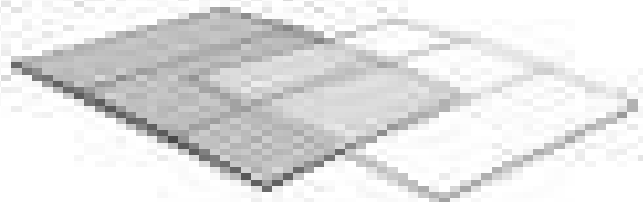


Figure 1

Figure 1: Venturi tube setup for measuring flow rate.

The Venturi tube is a device used to measure the flow rate of a fluid in a pipe. It consists of a pipe with a constriction in the middle. The fluid flows from left to right, and the pressure is measured at three points: the inlet, the constriction, and the outlet.

In the experiment, water is used as the fluid. The water is pumped into the Venturi tube from a reservoir. The pressure is measured at the inlet, the constriction, and the outlet. The flow rate is calculated using the pressure measurements.

It is important to note that the Venturi tube is only used for measuring flow rate in a pipe. It is not used for measuring flow rate in a tank or a reservoir.

The Venturi tube is a simple and effective device for measuring flow rate. It is widely used in many applications, including industrial process control and environmental monitoring.

Experimental Theory

Figure 1 shows the setup for the experiment. The water is pumped into the Venturi tube from a reservoir. The pressure is measured at the inlet, the constriction, and the outlet. The flow rate is calculated using the pressure measurements. The Venturi tube is a simple and effective device for measuring flow rate. It is widely used in many applications, including industrial process control and environmental monitoring.



Lab Manual Of Venturi Flume Experiment

E Durkheim



Lab Manual Of Venturi Flume Experiment:

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

Fluid Mechanics and Machinery : Laboratory Manual A. B. Shinde, A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979 **Experiment Station Record** United States. Office of Experiment Stations, 1921 **Fluid Mechanics Laboratory Manual** John B. Herbich, 1960 **Hydraulic Laboratory Manual** R. G. Folsom, Edson Homer Taylor, 1947 *General Technical Report RMRS*, 1998 *National Hydraulic Laboratory* United States. Congress. House. Committee on Rivers and Harbors, 1928 **The Instrument Manual**, 1953 **Technical Note**, 1921 *Flow Measuring Flumes for Open Channel Systems* Marinus Gijssberthus Bos, John A. Replogle, Albert J. Clemmens, 1984 Agricultural Engineering, 1925 The Instrument Manual J. T. Miller, 1960 **Water Measurement with Flumes and Weirs** Albert J. Clemmens, 2001 **Transactions of the ASAE**. American Society of Agricultural Engineers, 1989 Publicatie ... Van Het Waterloopkundig Laboratorium, 1976 **The Surveyor & Municipal & County Engineer**, 1936 Optimum Use of Water Resources Nicolaas Arie de Ridder, Food and Agriculture Organization of the United Nations. Soil Resources, Development and Conservation Service, Marinus Gijssberthus Bos, 1974 Bulletin, 1978 *Engineering News-record*, 1921

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