

VENTURIMETER EXPERIMENT

1. OBJECTIVE

The main objectives of this experiment is to obtain the coefficient of discharge from experimental data by utilizing venturi meter and, also the relationship between Reynolds number and the coefficient of discharge.

2. INTRODUCTION

There are many different meters used to measure fluid flow: the turbine-type flow meter, the rotameter, the orifice meter, and the venturi meter are only a few. Each meter works by its ability to alter a certain physical property of the flowing fluid and then allows this alteration to be measured. The measured alteration is then related to the flow. The subject of this experiment is to *analyze the features of certain meters.*

3. THEORY



Figure 1. Flow measurement apparatus

The flow measurement apparatus consists of a water loop as shown above figure. The supply line is connected to a gravimetric hydraulic bench. The flow rate controlled by a gate valve located at the discharge side of the hydraulics bench. A venturi meter, wide-angled

Venturimeter Experiment Manual

A. B. Shinde



Venturimeter Experiment Manual:

Fluid Mechanics with Laboratory Manual Bireswar Majumdar, 2016-02-29 Primarily intended for the undergraduate students of mechanical engineering civil engineering chemical engineering and other branches of applied science this book now in its second edition presents a comprehensive coverage of the basic laws of fluid mechanics The text discusses the solutions of fluid flow problems that are modelled by various governing differential equations Emphasis is placed on formulating and solving typical problems of engineering practice Fluid Mechanics with Laboratory Manual Mr. Sanjeev

Pandey, 2024-08-16 Combines theoretical concepts of fluid mechanics with practical laboratory experiments including measurement techniques fluid flow analysis and equipment operation *Hydraulic Laboratory Manual* Joseph N. Bradley, 1946

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

Practical Physics; a Laboratory Manual for Colleges and Technical Schools William Suddards Franklin, C. M.. Crawford, Barry MacNutt, 1908 *Laboratory Manual for Fluid Mechanics* Gordon G. Smith, Bobby Earl Price, 1963

Laboratory and Field Manual on Irrigation Engineering R.J. Patel, 2019-06-10 The irrigation water is considered as the essential input for crop production Over exploitation of natural water resources has caused a menace for the future human generations The depletion of underground water table in high productivity areas and under utilization of the water resources in rain fed areas of the country poor irrigation efficiency and high seepage losses from conveyance system poor land development and mismanagement of the irrigation water resources has acquired alarming proportions As the share of water for agriculture in future is going to reduce there will be tremendous pressure to produce more per drop of water in order to meet the food and other requirements of burgeoning population of the country The existing irrigation water resources are not utilized judiciously and their mismanagement has led to problems like low production efficiency salinization water logging and degradation of land To manage these problems and increase the production efficiency of irrigation it is pertinent to adopt judicious methods of irrigation water use by efficient on farm irrigation management based

on scientific approach Therefore a comprehensive knowledge of available soil moisture and its constants scheduling and quality of irrigation water and proper drainage techniques is crucial This manual on irrigation engineering is an attempt to fulfil this urgent need as it covers all major aspects of irrigation water management Although manual is meant primarily for the students of agricultural universities yet it will provide valuable basic information and guide to the scientific community and field functionaries

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Physics Lab Manual Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual

Fluid Mechanics and Machinery : Laboratory Manual A. B. Shinde, *Water Measurement Manual* United States. Bureau of Reclamation,1967 *Water Measurement Manual* ,1985 *Experimental Engineering and Manual for Testing* Rolla Clinton Carpenter,Herman Diederichs,1913

Mechanical Engineering Laboratory Manual Earl B. Smith,1909 *Cell and Microbiology Laboratory Manual* Mr. Rohit Manglik,2024-06-24 Hands on protocols and experiments for cell biology and microbiology labs including techniques in culture staining and microscopy

Experimental engineering and manual for testing, for engineers and for Rolla Clinton Carpenter,1911 *Fluid Mechanics Laboratory Manual* John B. Herbich,1960

Lab Manual-Physics-TB-11_E-R1 Dr R K Gupta, Lab Manual

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Design Manual of Methods of Forced Air Cooling Electronic Equipment Cornell Aeronautical Laboratory,1958

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