

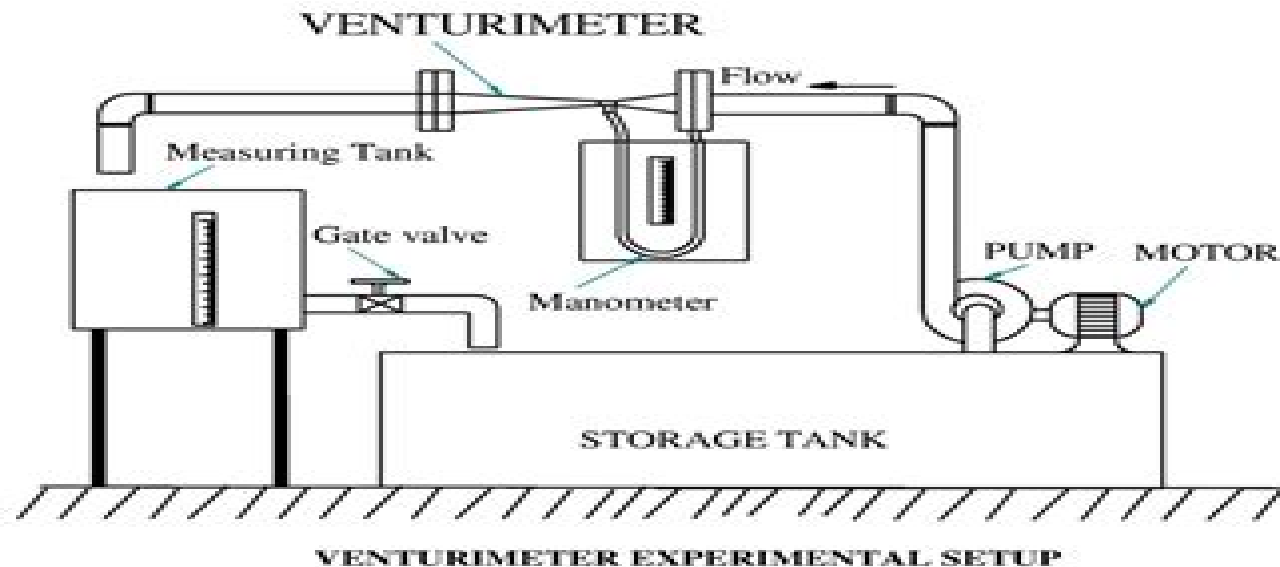
**EXPERIMENT No.01**  
**VENTURIMETER**

**Aim:** To determine the coefficient of discharge and calibrate the given Venturimeter for different flow rates.

**Apparatus:** Venturimeter experimental setup, stopwatch, scale

**Theory:** Write the theory on following topics

- i. Statement of Bernoulli's Equation
- ii. Assumptions for Bernoulli's equation
- iii. Bernoulli's Equation applications
- iv. Venturimeter construction and working principle
- v. Necessity of divergent portion in Venturimeter
- vi. Derivation of discharge through Venturimeter



# Venturimeter Experiment Manual

**Gordon G. Smith, Bobby Earl Price**



## 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 **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 *Physics Lab Manual* Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual **Laboratory Manual for Fluid Mechanics** Gordon G. Smith, Bobby Earl Price, 1963 **EduGorilla's CBSE Class 11th Physics Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination**, 2024-01-01 Need an informative and well illustrate Lab Manual CBSE Class 11th Physics Lab Manual is here for you The Lab Manual provides comprehensive steps for guiding students through each experiment Rigorously researched content prepared by a team of educators writers editors and proofreaders CBSE Class XI Physics Lab Manual has properly labeled high diagrams and graphs A separate section on Viva Questions has been included to aid students in their Viva examination The Lab Manual explains the complex topics through detailed illustrations and lucid language making them simple to grasp Worksheets have been provided in CBSE Class 11th Physics Lab Manual for doing rough work **Lab Manual-Physics-TB-11\_E-R1** Dr R K Gupta, Lab Manual Physics TB 11\_E R1 **Fluid Mechanics Laboratory Manual** John B. Herbach, 1960 [Hard Bound Lab Manual Physics](#) Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manuals *PHYSICS LABORATORY PRACTICAL MANUAL* JANE WHITE, 1 To determine the wavelength of monochromatic light by Newton's ring 2 To determine the

wavelength of monochromatic light with the help of Fresnel's biprism 3 To determine the focal length of two lenses by nodal slide and locate the position of cardinal points 4 To determine the specific rotation of cane sugar solution using biquartz or half shade polarimeter 5 To determine the wavelength of spectral lines using plane transmission grating 6 To study the polarisation of light by simple reflection using laser 7 To determine the wavelength of a laser He Ne light using single slit diffraction 8 To determine the specific resistance of the material of given wire using Carey Foster's bridge 9 To study the variation of magnetic field along the axis of current carrying circular coil and then to estimate the radius of the coil 10 To verify Stefan's law by electrical method 11 To calibrate the given ammeter and voltmeter by potentiometer 12 To study the Hall effect and determine Hall coefficient carrier density and mobility of a given semiconductor using Hall effect set up 13 To determine the energy band gap of a given semiconductor material 14 To determine the energy band gap of a semiconductor material using four probe method 15 To determine electro chemical equivalent  $E/C$  of copper using tangent or Helmholtz galvanometer 16 To draw the hysteresis curve B-H curve of a given specimen of ferromagnetic material and from this to determine its hysteresis loss 17 To determine the ballistic constant of a moving coil ballistic galvanometer 18 To determine the coefficient of viscosity of water by Poiseuille's method 19 To determine the coefficient of viscosity of a liquid by rotating viscometer 20 To measure fiber attenuation and numerical aperture of fiber 21 To determine high resistance by leakage method 22 To determine magnetic susceptibility of a paramagnetic solution by Quincke's method

### **Experimental**

**Engineering and Manual for Testing** Rolla Clinton Carpenter, Herman Diederichs, 1913      **Hydraulic Laboratory**

**Manual** R. G. Folsom, Edson Homer Taylor, 1947      Practical Manual Of Pharmaceutical Engineering Mrs. B. Jeevana

Jyothi, 2008-06-07      **Experimental engineering and manual for testing, for engineers and for** Rolla Clinton

Carpenter, 1911      *Laboratory Manual* Alfred William Doll, 1935      *Practical Physics; a Laboratory Manual for Colleges and*

*Technical Schools* William Suddards Franklin, C. M., Crawford, Barry MacNutt, 1908      *Hydraulics* S. K. Likhi, 1995 The

Experiments Described Are Required To Be Performed By Students Of Diploma Courses For The Course Hydraulics And By Students Of Degree Courses For The Course Fluid Mechanics 1 The Manual Explains The Procedure For Performing The Experiment The Description Is In The Form Of A Detailed Laboratory Report It Covers The Handling Of Apparatus How To Take Observations And Present Results The Book Includes Tables And Graph Sheets Where Observations Are To Be Recorded And Results Plotted Students Are Required To Interpret The Results And Will Appreciate The Importance And Significance Of The Experiment To The Real Life Situation This Manual Will Save The Student The Bother Of Writing Out The Procedure Drawing Tables And Purchasing Loose Graph Sheets Including Log Log Graph Sheets For Pasting Into His Journal The Book Will Form A Complete And Lasting Record Of His Work It Will Cut Down The Time The Teacher Needs To Spend On

Describing The Procedure The Manual Will Be A Great Help To Both Teachers And Students      **Water Measurement**

**Manual** United States. Bureau of Reclamation, 1967      *Mechanical Engineering Laboratory Manual* Earl B. Smith, 1909

**Aerodynamics & Propulsion Manual** Mr. Rohit Manglik, 2024-07-29 A practical guide manual covering experimental methods for studying aircraft aerodynamics and propulsion systems

## Decoding **Venturimeter Experiment Manual**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Venturimeter Experiment Manual**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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