



Chandigarh College of Engineering & Technology

Government Institute under UT Administration, Affiliated to Panjab University

CHANDIGARH COLLEGE OF ENGINEERING AND TECHNOLOGY, SECTOR 26, CHANDIGARH		
Experiment No-6		Rev = 1
Subject: Fluid Mechanics Lab.	Subject Code: MEC-456	Semester: 4

Experiment: To determine the friction coefficients for pipes of different diameters.

Equipment required: Darcy's apparatus

Description of equipment's to be used:

1. Darcy's apparatus consists of two pipes with different pipes
2. One common inlet valve is provided in the main supply line for the whole apparatus.
3. A measuring tank.

Theory:

While the nature of flow depends upon the Reynolds Number, the frictional resistance offered to the flow of fluids depends essentially on the roughness of the surface of the conduit carrying the flow. In laminar flow this frictional resistance is mostly due to viscous resistance of fluid to flow. In turbulent flow it is due to resistance offered by viscosity of fluid and surface roughness of the conduct this frictional resistance causes loss of head which is given by Darcy and Weisbach equation:

$$h_f = \frac{4fLV^2}{2gD}$$

Where f is called Darcy's friction factor and given by $f = 64/Re$ for laminar flow and depends upon relative roughness of pipe in case of turbulent flow.

L = Pipe length

V = Velocity

D = Diameter of pipe

Mechanical Fm Lab Manual

Terry C. Jones



Mechanical Fm Lab Manual:

Mechanical Fm Lab Manual Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Mechanical Fm Lab Manual**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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