



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

Robabeh Jazaei



Mechanical Fm Lab Manual:

Enjoying the Song of Expression: An Mental Symphony within **Mechanical Fm Lab Manual**

In some sort of consumed by screens and the ceaseless chatter of instantaneous interaction, the melodic splendor and psychological symphony developed by the written term usually diminish in to the background, eclipsed by the constant noise and disturbances that permeate our lives. But, set within the pages of **Mechanical Fm Lab Manual** a stunning literary treasure overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this captivating masterpiece conducts readers on an emotional journey, well unraveling the hidden tunes and profound impact resonating within each carefully crafted phrase. Within the depths with this emotional evaluation, we will examine the book is key harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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