

LAB SESSION 1

To verify the "Impulse Momentum Principle" for a jet of water striking on 90° deflector to investigate the effect of velocity of flow on impulse force of the jet for Flat plate deflector.

1.1 Learning Objectives:

At the end of this experiment, the student will be able to:

- Derive the expressions for impact of jet on flat.
- Calculate the co-efficient of impact.

1.2 Apparatus

1. Impact of Jet Apparatus with Deflector (90°)
2. Hydraulic Bench
3. Stop Watch
4. Thermometer

1.3 Related theory

Impulse Momentum Principle

It states that the algebraic sum of all the external forces acting on the control volume of the fluid is equal to the rate of change of momentum.

$$\Sigma F = \frac{\Delta P}{\Delta T}$$

Mathematical:

According to the newton's 2nd law of motion

$$\Sigma F = ma$$

Where, ΣF is the net force, m is the mass of object and a is the acceleration or rate of change of velocity.

$$\Sigma F = m \frac{dV}{dt} = \frac{m}{dt} dV = M \cdot dV$$

Where

$$M = \rho Q$$

Where, M is the mass flow rate, ρ is the density of fluid and Q is the discharge.

So,

$$\begin{aligned}\Sigma F &= \rho Q \cdot dV \\ \Sigma F &= \rho Q \cdot (V_2 - V_1) \\ \Sigma F &= \rho Q \cdot (0 - V_1) \\ \Sigma F &= -\rho Q V\end{aligned}$$

Lab Manual For Mechanical Engineering

VM Jensen

A decorative graphic element consisting of a horizontal light blue bar with a rounded right end, overlapping a red circular gradient shape.

Lab Manual For Mechanical Engineering:

Decoding **Lab Manual For Mechanical Engineering**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Lab Manual For Mechanical Engineering**," 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 effect 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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