#### CIVL 2310 Fluid Mechanics

#### Assignment 1 2009

## Due Date: 26th March 2009

#### Question 1:

a) Assuming hydrostatic pressure distributions, uniform velocity profiles, and negligible viscous effects, find the horizontal force needed to hold the gate in the position shown in Figure 1.

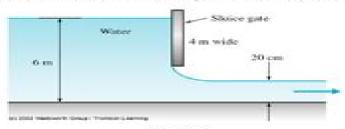
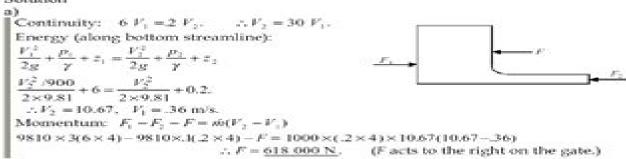


Figure 1

b) Repeat part a) with the gate lowered so that the downstream depth is 10 cm. Compare with a) and discuss implications for the design of the gate.

Solution



b) continuity  $V_2$ =60 $V_I$ applying energy  $V_2$ =10.76,  $V_I$ =0.18 m/s applying momentum F=660587 N

# **Fluid Mechanics Answers**

Lei Shi

The Enigmatic Realm of Fluid Mechanics Answers: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Fluid Mechanics Answers** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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