

# Final Exam of CE 313 (Hydraulic Engineering), Winter 2013

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Name: Solution

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- ✓ You will have 1h 50 minutes to complete the exam. The exam is closed book, closed notes and open mind.
- ✓ The procedure will be graded. Please justify your answers
- ✓ The exam consists of 4 questions. Each question is worth 25 points.
- ✓ Only specified calculators in the syllabus will be permitted

1. You are asked to design a rectangular channel that has the minimum wetted perimeter and that conveys flow in critical conditions. Find the relationship between the critical depth and the channel width if the flow discharge is constant. Your answer should look something like " $Y_c = cb$ ", where " $c$ " is a constant and " $b$ " is the channel width.



$$P = b + 2Y_c$$

$$P_{\min} \rightarrow \frac{dP}{dY_c} = 0 = \frac{db}{dY_c} + 2$$

$$\Rightarrow \frac{db}{dY_c} = -2$$

$$Fr = 1 \rightsquigarrow V = \sqrt{gY_c} \quad \text{or} \quad Q = bY_c\sqrt{gY_c} = b g^{1/2} Y_c^{3/2}$$

Since  $Q$  is constant,  $\frac{dQ}{dY_c} = 0 = b g^{1/2} (3/2) Y_c^{1/2} + \frac{db}{dY_c} g^{1/2} Y_c^{3/2}$

$$0 = \frac{b g^{1/2} (3/2) Y_c^{1/2}}{g^{1/2} Y_c^{1/2}} + \frac{db/dY_c g^{1/2} Y_c^{3/2}}{g^{1/2} Y_c^{1/2}}$$

$$0 = b(3/2) + \frac{db}{dY_c} Y_c$$

$$0 = b(3/2) - 2Y_c$$

$$\therefore Y_c = 3b/4$$

10pt for overall process.

# Fluid Mechanics Exam Questions And Answers

**Mr. Rohit Manglik**



## **Fluid Mechanics Exam Questions And Answers:**

## **Fluid Mechanics Exam Questions And Answers** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Fluid Mechanics Exam Questions And Answers**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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