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HYDRAULICS

NON-UNIFORM FLOW IN OPEN CHANNEL EXERCISE

TOPIC 3.3

by

Nadiatul Adilah Ahmad Abdul Ghani
Faculty of Civil Engineering and Earth Resources
nadiatul@ump.edu.my

Chapter 3: Non - Uniform Flow in Open Channel by N Adilah A A Ghani

Communitising Technology

Exercise 3.4

A rectangular channel flows at $3 \text{ m}^3/\text{s}$ with 2.0m width. The normal depth is 0.8m . The width will be decreased at downstream.

- Determine the maximum width for critical flow obtained at this part (downstream)
- Calculate the depth at upstream (before throat) if the throat is 1.2 m

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Exercise 3.5

A rectangular channel with 3.0 m width and water depth 3.0 m at velocity 3.0 m/s. If the channel bed increase at 0.61 m, how much the width will be increased for maintain the same flow at the upstream?

