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HYDRAULICS

NON-UNIFORM FLOW IN OPEN CHANNEL EXERCISE

TOPIC 3.5

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

Communitising Technology

Exercise 3.8

A rectangular channel ($b=5\text{m}$, $S_o = -0.001$) conveys flow at a rate of $Q = 3\text{m}^3/\text{s}$. At a given location the depth is $y_1 = 2\text{m}$ and downstream of that location the depth is $y_2 = 1.8\text{m}$. The Manning coefficient is $n = 0.02$.

- Determine the distance between locations 1 and 2.
- What type of water surface profile exists in the reach?

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