

Open Channel Flow and Hydraulic Structures

QUESTION 1

A rectangular 5 m wide channel has a sluice gate placed in a stilling (see figure below). The channel has bed slope of $S_o=0.1\%$, the Manning roughness coefficient of $n=0.015$ and no controls downstream from the stilling basin. The flow rate is $Q=20 \text{ m}^3/\text{s}$, the gate opening is $h_g=0.7\text{m}$, the gate coefficient of contraction is $C_c=0.6$, the slope of the stilling basin bed is $S_s=0\%$, and the energy loss coefficient at the end of the stilling basin (at the step p) is $\xi=0.3$, while the hydraulic jump forms immediately after the gate. Calculate the following:

- (i) the depth of the water downstream from the stilling basin, h
- (ii) the depth of the stilling basin, p
- (ii) the depth upstream from the gate, h_u



Open Channel Hydraulics Solved Problems

Xiaolong Qi



Open Channel Hydraulics Solved Problems:

Open Channel Hydraulics Solved Problems Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Open Channel Hydraulics Solved Problems**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written 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 will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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