

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

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Open Channel Hydraulics Solved Problems:

The Enigmatic Realm of **Open Channel Hydraulics Solved Problems**: 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 in short supply of extraordinary. Within the captivating pages of **Open Channel Hydraulics Solved Problems** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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