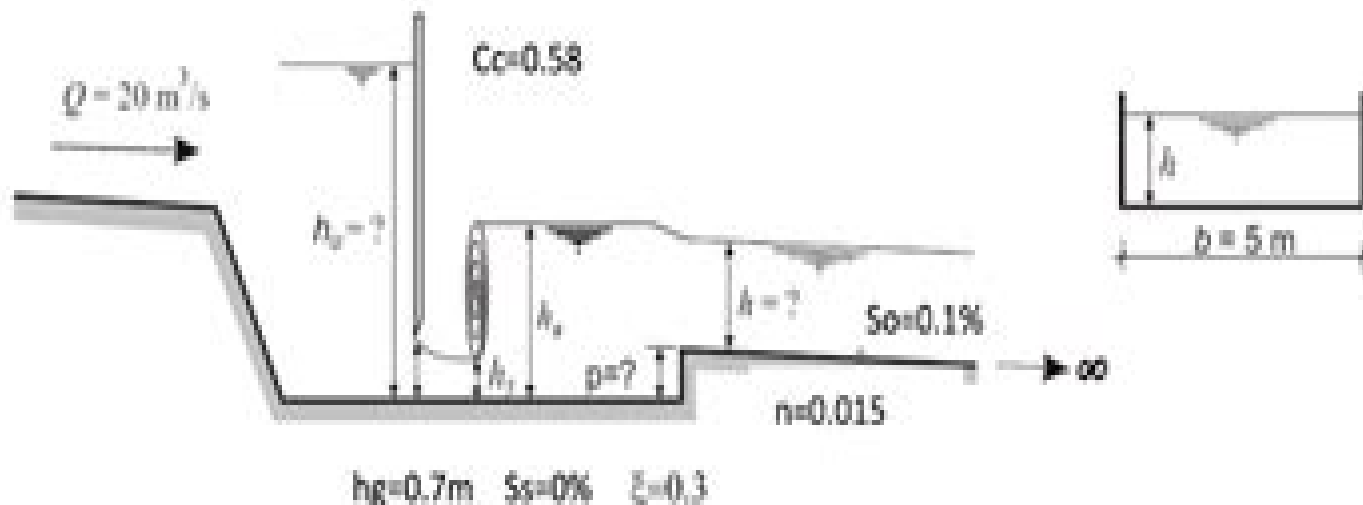


Open Channel Flow and Hydraulic Structures

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



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