

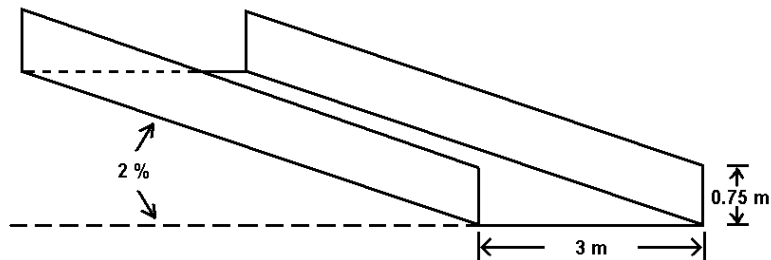
TOPIC

Fluids – Section X – Question 6

QUESTION

A rectangular open channel (see figure below) is used to handle storm water run-off. The channel is 3 m wide and 0.75 m deep and is lined with concrete. The channel is oriented on a 2% grade and the concrete has a Manning roughness coefficient of 0.014. The maximum volumetric flow rate of water (in m^3/s) that the channel can handle is closest to:

- (A) 6.4
- (B) 8.4
- (C) 10.1
- (D) 14.3

**CONTRIBUTOR**

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