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Discussion The Froude number is the most important parameter in open-channel flow. 13-8C Solution We are to discuss whether the flow upstream of a hydraulic jump must be supercritical, and whether the flow downstream of a hydraulic jump must be subcritical. Analysis Upstream of a hydraulic jump, the upstream flow must be supercritical. Downstream of a hydraulic

Chapter 13 OPEN-CHANNEL FLOW

BASIC HYDRAULIC PRINCIPLES OF OPEN-CHANNEL FLOW by Harvey E. Jobson and David C. Froehlich ABSTRACT The three basic principles of open-channel-flow analysis the conserva tion of mass, energy, and momentum are derived, explained, and applied to solve problems of open-channel flow. These principles are introduced at a

BASIC HYDRAULIC PRINCIPLES OF OPEN-CHANNEL FLOW

In this case the hydraulic gradient line, or piezometric line, is the same for all streamtubes and is co-incident with the free surface. This result accounts for the wide application of the energy line — hydraulic gradient line as a means of describing an open channel flow.

Open-Channel Flow

OPEN-CHANNEL FLOW Open-channel flow is a flow of liquid (basically water) in a conduit with a free surface. That is a surface on which pressure is equal to local atmospheric pressure. Free surface Patm Patm

OPEN-CHANNEL FLOW

Open-Channel Hydraulics.Ven Te Chow. McGraw-Hill, New York, 1959. xviii + 680 pp. Illus. \$17

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This book is a text for graduate or undergraduate students in civil and agricultural engineering and hydrologic science and an excellent source for fundamental principles of open channel hydraulics. From the Table of Contents: Chapter 1 explains the types of flow encountered in open channels are classified with respect to time, space, viscosity ...

Open Channel Hydraulics: Richard H. French: 9781887201445 ...

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Chapter 6--Channel Hydraulics

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A hydraulic jump is a region of rapidly varied flow and is formed in a channel when a supercritical flow transitions into a subcritical flow. This change in flow type is manifested as an abrupt change in the flow depth from the shallower, faster-moving supercritical flow to the deeper, slower-moving subcritical flow.

Momentum-depth relationship in a rectangular channel ...

Sturm, T.W., Open Channel Hydraulics, 2nd Edition. 1.11. CHAPTER 1. The velocity distribution for laminar flow in an open channel is given by. $u u^* z^2 = z - u^* v^2 y_0$ in which $v =$ kinematic ...

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