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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

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### Open Channel Hydraulics Solutions

This chapter discusses the basic principles of open channel hydraulics. In examining hydraulic processes on alluvial fans, it is necessary for the non-engineer to become familiar with some of the basic principles of open-channel flow: and for the engineer with a background in fluid mechanics and hydraulic engineering to re-examine and re-consider some of the basic principles of these technical ...

### Chapter 3 Basic Principles of Open Channel Hydraulics ...

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

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### Hydraulic Structures: Fourth Edition

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 ...

6-ii (210-VI-NEH, August 2007) Part 654 National Engineering Handbook Chapter 6 Stream Hydraulics Tables Table 6-1 Froude numbers for types of hydraulic jumps 6-30 Table 6-2 Project dimensions by type and stage of project 6-35 Table 6-3 Scope of hydraulic analyses by project type 6-35 Figures Figure 6-1 Channel cross-sectional parameters 6-3

### Chapter 6--Channel Hydraulics

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

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Open Channel Hydraulics is written for undergraduate and graduate civil engineering students, and practicing engineers. Written in clear and simple language, it introduces and explains all the main topics required for courses on open channel flows, using numerous worked examples to illustrate the key points.

**Open Channel Hydraulics - 1st Edition**

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The standard step method (STM) is a computational technique utilized to estimate one-dimensional surface water profiles in open channels with gradually varied flow under steady state conditions. It uses a combination of the energy, momentum, and continuity equations to determine water depth with a given a friction slope ( $f$ ), channel slope ( $S_0$ ), channel geometry, and also a given flow rate.

**Standard step method - Wikipedia**

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Chow, V.T. (1959) Open Channel Hydraulics. McGraw-Hill, New York. has been cited by the following article: TITLE: Channel Slope Effect on Energy Dissipation of Flow over Broad Crested Weirs. AUTHORS: Shaymaa A. M. Al-Hashimi, Huda M. Madhloom, Thameen N. Nahi, Nadhir Al-Ansari

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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.  $u = u^* \left( \frac{z}{y_0} \right)^2$  in which  $\nu$  = kinematic ...

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