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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.

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Downstream of a
hydraulic

Chapter 13 OPEN- CHANNEL FLOW

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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-

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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

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Harvey E. Jobson and
David C. Froehlich

ABSTRACT The three basic principles of open-channel-flow analysis the conservation of mass, energy, and momentum are derived, explained, and applied to solve problems of open-channel flow. These principles are introduced at a

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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

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flow depth from the shallower, faster-moving supercritical flow to the deeper, slower-moving subcritical flow.

Momentum-depth relationship in a rectangular channel

...

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Chapter 6--Channel Hydraulics

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Chow, McGraw-Hill,
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680 pp. Illus. \$17

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

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The standard step method (STM) is a computational technique utilized to estimate one-

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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 (S_f), channel slope (S_0), channel geometry, and also a given flow rate.

Standard step

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method - Wikipedia

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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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