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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 ...

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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 ...

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

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