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and β for a cross-
section given the
discharge
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**SOLVED PROBLEMS
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In the context of open channel flows $Fr < 1$ implies subcritical flow, $Fr > 1$ supercritical flow, and $Fr = 1$ critical flow. This approach is directly analogous to the Mach Number (M) description of a

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compressible flow. This defines the ratio of the gas velocity to the sonic velocity, such that $M < 1$ implies subsonic flow and $M > 1$ supersonic flow.

Open-Channel Flow - Thermopedia

open channels, R can be approximated by the mean flow depth (d), which is equal to the flow area (A) divided by the top width (T). In the

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absence of local hydraulic controls, the hydraulic gradient is usually equal to the channel slope for high in-bank flows. Some equations also include a roughness parameter to account for the different

Evaluation Of Open Channel Flow Equations

The three basic principles of open-channel-flow analysis

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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 level that can be comprehended by a person with an understanding of the prin

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flow will be considered in a later chapter, as will network flows. The open channel flow equations are derived from the fundamental 3-dimensional equations of fluid mechanics. These differential equations and related concepts are reviewed first below, followed by a definition of the open channel flow problem.

Chapter 2.

Derivation of the Equations of Open Channel Flow

Comparison of Open Channel Flow & Pipe Flow

- 1) OCF must have a free surface
- 2) A free surface is subject to atmospheric pressure
- 3) The driving force is mainly the component of gravity along the flow direction.
- 4) HGL

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is coincident with the free surface. 5) Flow area is determined by the geometry of the channel plus

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Fundamentals of Open Channel Flow outlines current theory along with clear and fully solved examples that illustrate the concepts and are geared to a first course in open channel flow. It highlights the practical computational tools students can use to solve problems, such as spreadsheet applications and the HEC-RAS program.

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