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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 conservation 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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Equation 9. Energy, Specific Energy, and Gradually Varied Flow 10. Momentum (Hydraulic Jump) 11. Computation: Direct Step Method and Channel Transitions 12. Application of HEC-RAS 13. Design of Stable Channels 3.1 Topic 8: Open Channel Flow

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Chapter 6 Stream Hydraulics 645.0602 Channel cross-sectional parameters A variety of channel cross-sectional parameters are used in the hydraulic analysis of streams and rivers. It is important to measure and use these parameters consistently and accurately. A generalized cross section is shown in figure 6-1.

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Chezy and Manning equations, the foundation of our present science of open channel hydraulics, are not dimensionally homogeneous. The author presents a new derivation of these equations that reveals the constituent parts of these coefficients, allowing for calculation of more accurate values.

A new derivation of the Chezy and Manning equations for ...

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Open Channel Hydraulics | ScienceDirect

For the remainder of the course we will be considering problems in hydraulics, largely open-channel hydraulics, and will be developing methods to solve those problems computationally. Initially the problems considered are those where there is a single independent variable, and we solve ordinary differential equations, notably for cal-

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