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for open-channel flows. Discussion The normal depth is a fairly strong function of surface roughness. 13-2C Solution We are to discuss how pressure changes along the free surface in open-channel flow. Analysis The free surface coincides with the hydraulic grade line (HGL), and the pressure is constant along the free surface.

Chapter 13 OPEN-CHANNEL FLOW

• Subject: Open Channel Hydraulics: d e r e v o c s c i p o • T 8. Open Channel Flow and Manning 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

3.2 Topic 8: Open Channel Flow - University of Texas at Austin

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

OPEN-CHANNEL FLOW

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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 conserva tion of mass, energy, and momentum are derived, explained, and applied to solve problems of open-channel flow.