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A wide channel carries a uniform flow at a depth of 5.0 feet on a slope of 0.0001. Compute the shear stress at the bed and the friction velocity. The bottom for the channel in problem 2 is smooth and the water temperature is 40 °F. Compute and plot a curve showing the theoretical velocity distribution.

### BASIC HYDRAULIC PRINCIPLES OF OPEN-CHANNEL FLOW

Open-channel flow is a flow of liquid (basically water) in a conduit with a free surface. That is a surface on which pressure is equal to local atmospheric pressure. Open-channel flows are characterized by the presence of a liquid-gas interface called the free surface. Natural flows : rivers, creeks, floods, etc.

### OPEN-CHANNEL FLOW

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

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1. FUNDAMENTALS OF OPEN CHANNEL FLOW 2. ENERGY AND MOMENTUM PRINCIPLES 3. NORMAL FLOW 4. GRADUALLY VARIED FLOW 5. DESIGN OF OPEN CHANNELS 6. HYDRAULIC STRUCTURES 7. BRIDGE HYDRAULICS 8. INTRODUCTION TO UNSTEADY OPEN-CHANNEL FLOW. Please note that the files are compressed using the program Winzip.

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multifunctional open channel hydraulic test equipment and using still water as the reference condition, the experiments investigating the water saturation of red sandstone with laminar flow and turbulent flow under dynamic water conditions was carried out. The effects of circulating solution chemical

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