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**A Computer Model for the Hydraulic Analysis of Open Channe...**

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Usually dispatched within 3 to 5 business days. Analysis of open-channel flow is essential for the planning, design, and operation of water-resource projects. The use of computers and the availability of efficient computational procedures has simplified such analysis and made it possible to handle increasingly complex systems.

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This has important implications for the control of any open channel flow, and in particular the estimation of water levels for a given volume discharge. If a flow is

supercritical, a disturbance at the water surface is unable to travel upstream (relative to a stationary observer) because the velocity of the flow exceeds the wave velocity ( $Fr > 1$ ).

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For an open channel flow to be uniform, the same conditions must apply to the channel. That is, it must be straight and have a constant cross section. This is not sufficient, however, because the water surface must also be parallel to the channel slope.

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## Appendix 4-C Open Channel Theory

The basic approximation in open channel hydraulics, which is usually a very good one, is that variation along the channel is gradual. One of the most important consequences of this is that the pressure in the water is given by the hydrostatic approximation, that it is proportional to the depth of water above.

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open channel flow analysis and it depends on quantification of the flow

resistance. Natural channels display a much wider range of roughness values than artificial channels. 4.C.2 Concepts 4.C.2.1. Specific Energy Specific energy,  $E$ , is defined as the energy head relative to the channel bottom. If the *Open channel-hydraulics-chow-solution-manual* 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 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

Open Channel Flow by Henderson is an engineering classic. It's a solid coverage of the material, easy to read, and contains some interesting discussion on the origins and experimental results for the empirical equations that we Water Resources and Civil Engineers use everyday.

## CHAPTER 4 OPEN CHANNEL HYDRAULICS 4.1

### Introduction

As the normal depth is only 1.52 m, the backwater is.  $y = 1.87 - 1.52 = 0.35$  m. That is, the depth upstream of the dam is increased 0.35 m by the 1.22 m high dam when the flow. is 28.32 cms.

## Open-Channel Flow

CE 544 – Open Channel Hydraulics MWF

10:00-10:50 am in KEAR

205. INSTRUCTOR Dr.

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*Evaluation Of Open Channel Flow Equations*

For the trapezoidal channel cross

section, the wetted perimeter,  $P$ ,

and the cross-sectional area of

flow,  $A$ ,  $9+1$  (5) where is the

unknown,  $F$  (4) is the evaluated

function, and  $j$  is the iteration

counter. The NRM requires one

initial estimate to commence the

solution process.

*Open channel hydraulics -*

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1. Open Channel Hydraulics

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