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Henderson, F. M.
(1966) Open Channel
Flow, Macmillan, New
York. Herschy, ... This
reminds us that we are
obtaining approximate
solutions to

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approximate problems, but it does allow some simplifications to be made. The basic approximation in open channel hydraulics, which is usually a very good one, is that variation

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Specialist texts
describing open
channel flow are given
by Chow (1959),
Henderson (1966),
Francis and Minton
(1984) and Townson
(1991). REFERENCES
Chow, V. Y. (1959)
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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

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(ENGLISH) How much
backwater will the dam
cause for a flow of
28.37 m³/s if the
normal depth for this
discharge is 1.52 m

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and the dam height is
1.22 m?

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FLOW (ENGLISH)

Hydraulics 3 Answers
(Open-Channel Flow
Notes) - 1 Dr David
Apsley ANSWERS
(OPEN-CHANNEL FLOW
NOTES) AUTUMN 2020
Section 1.2 Example.
The discharge in a
channel with bottom
width $b = 3 \text{ m}$ is $12 \text{ m}^3/\text{s}$. If Manning's n is

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0.013 m $1/3$ s and the streamwise slope is 1 in 200, find the normal depth if:

ANSWERS (OPEN-CHANNEL FLOW NOTES) AUTUMN 2020

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Akan ...**

Demonstration of
Concepts Given: A
hydraulic jump occurs
in a v-shaped channel
with an upstream
depth equal to 2 ft. The
flow through the
channel is $100 \text{ ft}^3/\text{s}$
and the side slopes of
the channel are 2:1
($m=2$). Find the
downstream depth.

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Solution: Check that momentum is conserved. There are slight differences between these...

Example Problem | Open Channel Flow in a V-Shaped Channel

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

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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

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Hydraulics, River

Hydraulic Structures and Fluvial

Geomorphology. Its

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estimate is based upon fundamental fluid dynamic calculations, with a range of proven solutions. Figure 1D illustrates a rounded spillway crest designed to increase the discharge capacity at design flow compared to a broad crest. The dissipation of energy

CHAPTER 2 **Hydraulics of** **Selected Hydraulic** **Structures**

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Anderson

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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

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Professor Henderson's book "Open Channel Hydraulics" is used as a standard text in almost all engineering schools in Australia and many others throughout the world. The Award aims to recognise the contribution of the science of hydraulics to the practice of hydrology and water resources engineering in Australia.

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V.T. Chow in his "Open-Channel Hydraulics"

(1959, §2-10) and F.M.

Henderson (1966, eqn

2-2) both knew it for

uniform flow 50 years

ago. Maybe everybody

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else knows it, except for me but I thought I would mention it here, just in case. It is this: in an open channel with resistance, the pressure distribution is not hydrostatic.

Alternative

Hydraulics - John

Fenton Homepage

Analysis of open-channel flow is essential for the planning, design, and operation of water-

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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. In Open-Channel

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