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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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ratios sediment shear

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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

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a roughness parameter  
to account for the  
different

## **Evaluation Of Open Channel Flow Equations**

Normal depth is the  
depth of uniform flow in  
an prismatic open  
channel. Since the flow  
is uniform, the depth  
and discharge are  
related through  
Manning's equation  
with  $S_f = S_o$ . 3.15

Given  $Q, n, A(y), R_h(y)$

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and So: solve for  $y_n$   
Waves (Small  
Disturbances) in a  
Moving Stream  $y_c < V$   
Wave (disturbance)  
can move upstream if  
3.16 Froude Number

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

These definitions allow  
the classification of the  
flow regimes noted  
above. If  $d > d_c$  (or  $u < u_c$ ) the regime is



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described as subcritical (or subundal) flow; whereas if  $d < d_c$  (or  $u > u_c$ ) supercritical (or superundal) flow is said to occur. A close analogy exists between these definitions of an open channel flow and the distinction of subsonic or supersonic flow in a compressible fluid.

## **Open-Channel Flow**

Basic Equations of  
Open-Channel Flow. At

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the heart of the routing models included in the program are the fundamental equations of open channel flow: the momentum equation and the continuity equation. Together the two equations are known as the St. Venant equations or the dynamic wave equations.

## **Open-Channel Flow Equations and**

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also be a segment of a channel network.

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## **SWMM Where is open channel flow by henderson? (U. Shamsi)**

The solution is.  $y = 1.87$  m. As the normal depth is only 1.52 m, the backwater is  $\Delta y = 1.87 - 1.52 = 0.35$  m. That is, the depth upstream of the dam is increased 0.35 m by the 1.22 m high dam

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ENERGY EQUATION IN  
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surface is parallel to  
the slope of the  
channel bottom. Slope

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of the fluid surface  
( $S_w$ ) // slope of the  
channel bottom ( $S$ )  
Slope of the channel  
should be constant. If  
the cross section or  
slope of the channel is  
changing then varied  
flow will occur.

## **LECTURE 9: Open channel flow: Uniform flow, best hydraulic ...**

This book pertains to  
the solution of ordinary  
differential equations

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as applied to the solution of one-dimensional open channel flow problems. It lacks a thorough treatment of the theoretical basis of the equations and therefore the reader should refer to the excellent texts by Chow and Henderson.

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