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## CHAPTER 5 OPEN-CHANNEL FLOW

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Total Head at A Cross Section: The total head at a cross section is: where  $H$ =total head  $Z$ =elevation of the channel bottom  $P/g = y$  = the vertical depth of flow (provided that pressure distribution is hydrostatic)  $V^2/2g$ = velocity head  $2g V + P H = z + . 2 av. EGL Datum x z y V^2/2g Q.$   
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Figure 5-5. A uniform open-channel flow: the depth and the velocity profile is the same at all sections along the flow. 12 One kind of problem that is associated with uniform flow is what the channel slope will be if discharge  $Q$ , water depth  $d$ , and bed sediment size  $D$  are specified or imposed upon the flow.

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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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The book contains the full range of subjects on open channel flows, including mixing and dispersion, Saint-Venant equations method of characteristics and interactions between flowing water and its surroundings (air entrainment, sediment transport). Following the approach of Hubert Chanson's highly successful undergraduate textbook Hydraulics of Open Channel Flow, the reader is guided step-by-step from the basic principles to more advanced practical applications. (PDF) A. Osman Akan, Open Channel Hydraulics, | Murtatha ...

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6 Dr David Apsley Iteration (from, e.g., =4) gives

=3.948 m. For the supercritical(fast, shallow)

solution, the second term, associated with kinetic

energy, dominates, so rearrange as: = 0.8155

4 – Iteration (from, e.g., =0) gives =0.4814

m.

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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.

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