SECTION A: OPEN-CHANNEL FLOW

1. INTRODUCTION
   1.1 Classification
   1.2 Normal flow
   1.3 Flow energy: fluid head
   1.4 Froude number

2. RAPIDLY-VARIED FLOW
   2.1 Hydraulic jump
   2.2 Specific energy
   2.3 Critical-flow devices
   2.4 Forces on objects

3. GRADUALLY-VARIED FLOW
   3.1 Normal flow vs gradually-varied flow
   3.2 Derivation of the gradually-varied-flow equation
   3.3 Finding the friction slope
   3.4 Profile classification
   3.5 Qualitative examples of open-channel-flow behaviour
   3.6 Numerical solution of the GVF equation

4. WAVE SPEED AND ANALOGY WITH COMPRESSIBLE FLOW
   4.1 Long-wave speed on shallow water
   4.2 Zone of influence
   4.3 Analogy with compressible flow

Recommended Textbooks


