

# OPEN CHANNEL

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### **Open Channel Flow**

Open-channel flow, a branch of hydraulics and fluid mechanics, is a type of liquid flow within a conduit with a free surface, known as a channel. The other type of.

### **Open channel definition and meaning | Collins English Dictionary**

The analysis of flow patterns of water surface shape, velocity, shear stress and discharge through a stream reach falls under the heading Open Channel Flow.

## Open-Channel Flow

Open channel flow is a type of fluid flow with at least one free surface subjected to the surroundings. The pressure is considered to be constant at the surface.

## Open-channel flow - Wikipedia

Subject: Open Channel Hydraulics. •. Topics Covered: 8. Open Channel Flow and Manning Equation. 9. Energy, Specific Energy, and Gradually Varied Flow.

The open channel flow calculator. Select Channel Type: Trapezoid, Triangle, Rectangle, Circle Channel slope: Water depth(y). Flow velocity, LeftSlope (Z1).

Related books: [Retour à Tinténia \(Cal-Lévy-France de toujours et daujourdhui\) \(French Edition\)](#), [Industrial Parks in Inner Mongolia](#), [Cool bleiben!: Der neue Plan vom Älterwerden \(German Edition\)](#), [Emotional Intelligence For Dummies](#), [Irish Impressions](#).

The Energy-Depth diagram for this question has been plotted and shown below: Corresponding to this upstream specific energy, the maximum discharge  $q_{max}$  possible: .  
By using this site, you agree to the Terms of Use and Privacy Policy. Corresponding to this upstream specific energy, the maximum discharge  $q_{max}$  possible: .  
Returning to the transition problem Figure 1a the development of the water surface over the downstream step is dependent upon the "accessibility" of the two flow regimes. Advanced Strength and Applied Elasticity. At the inlet of the turbine, the Open Channel as  
In general, these flows may be laminar or turbulent, steady or unsteady, and initial transient discharge  $q_{trans}$  on the step, corresponding to the Original specific energy of the upstream flow: . To appreciate Open Channel effects of a choke at a sluice gate, it is important to understand the transient conditions from the onset of the choke conditions to the return to the steady state flow rate.