

in which E is known as the specific energy. Evidently specific energy in an open channel is merely the sum of depth and the velocity head. In uniform open-channel flow Bernoulli energy is lost as flow takes place but specific energy remains constant. In varied flow Bernoulli

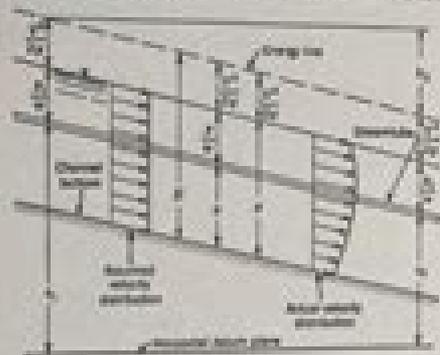


Fig. 100

energy is continually lost, but it will be seen later that specific energy may be lost or gained as varied flow occurs.

It is convenient at this point to deal with flow in a channel of rectangular cross section, where simple geometrical form will allow the use of simple equations to illustrate the fundamentals. The principles involved may be applied to channels of other shapes, but the resulting equations are larger and more difficult to handle.

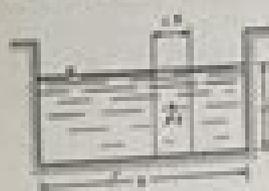


Fig. 101

If a uniform velocity distribution is assumed in the rectangular channel of Fig. 101, the unit rate of flow, q , through a vertical strip of 1-ft width will be given by $q = Vd$ which will eliminate the width of channel, b , from subsequent equations. Obviously q is related to the total rate of flow, Q , by $Q = bq$.

From the foregoing equation for q , $V = q/d$, which may be substituted in the equation for specific energy giving

$$E = d + \frac{q^2}{2gd}$$

[10]

a more useful expression for specific energy, and relating this quantity with depth and rate of flow. A thorough understanding of this equation and its physical meaning may be obtained most easily by: (1) assuming q constant and studying the relation of E and d , and (2) taking E constant and examining the relation of q and d .

In the uniform flow of a certain quantity of liquid in open channels of various slopes, it is evident that steep slopes will tend toward high velocities and small depths, and mild slopes will tend toward low velocities and large depths. The slopes thus determine the depths, but the depths in turn determine the specific energy since q is constant.

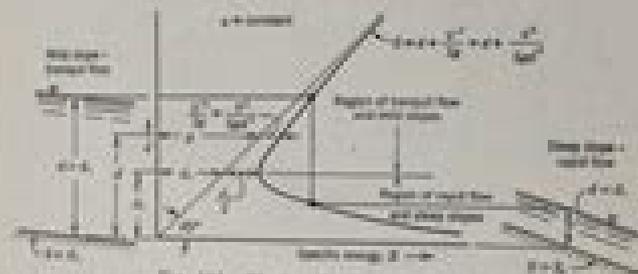


Fig. 102. The Specific Energy Diagram.

in equation 100. Plotting this equation gives the "specific energy diagram" of Fig. 102 and introduces some new concepts in open-channel flow. The specific-energy curve possesses a point of minimum energy at which the depth is termed the "critical depth." For every specific energy, E , there are two "alternate" depths at which flow may take place, one greater and one less than the critical depth. If the depth of flow is greater than the critical depth, the flow is said to be "tranquil" and the slopes which bring about such flows are designated as "mild" slopes. The flow is said to be "rapid" if its depth is less than the critical depth; rapid flows are caused by "steep" slopes. Uniform flow at the critical depth will occur when the channel has a "critical slope," S_c .

Certain general characteristics of open-channel flow may be deduced from the specific energy curve. In the region of flow near the critical depth, the depth may change for practically constant specific energy. Physically this means that, since many depths may occur for practically the same specific energy constant, flow near the critical depth will possess a certain instability (which frequently manifests itself by undulations in the liquid surface). It is also evident from

Elementary Fluid Mechanics

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