

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

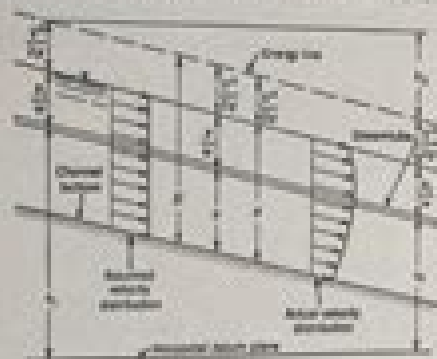


FIG. 100

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.

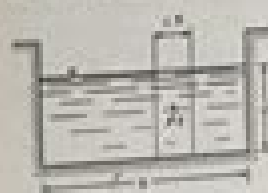


FIG. 101

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

$$E = d + \frac{q^2}{2gd} \quad (10)$$

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.

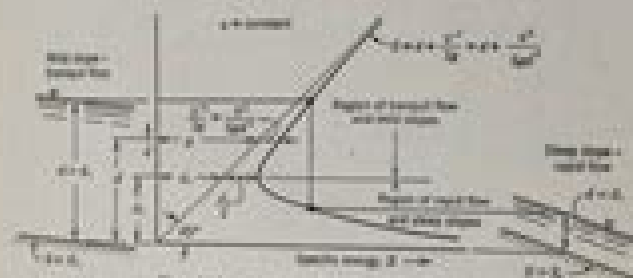


FIG. 102. The Specific Energy Diagram.

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 Si Ver

TD Snyder



Elementary Fluid Mechanics Si Ver:

Elementary fluid mechanics J. K. Vennard, R. L. Street, 1982 *Elementary Fluid Mechanics 5TH Edition Si Version* John K. Vennard, Robert L. Street, 1976-01-01 Elementary Fluid Mechanics, Fifth Edition, SI Version [by] John K. Vennard, Robert L. Street. Solutions Manual Robert Lynnwood Street, John K. Vennard, Bruce M. Howe, 197? Elementary Fluid Mechanics John K. Vennard, 2011-03-23

Fluid mechanics is the study under all possible conditions of rest and motion. Its approaches are analytical, rational, and mathematical rather than empirical; it concerns itself with those basic principles which lead to the solution of numerous diversified problems and it seeks results which are widely applicable to similar fluid situations and not limited to isolated special cases. Fluid mechanics recognizes no arbitrary boundaries between fields of engineering knowledge but attempts to solve all fluid problems irrespective of their occurrence or of the characteristics of the fluids involved. This textbook is intended primarily for the beginner who knows the principles of mathematics and mechanics but has had no previous experience with fluid phenomena. The abilities of the average beginner and the tremendous scope of fluid mechanics appear to be in conflict and the former obviously determine limits beyond which it is not feasible to go; these practical limits represent the boundaries of the subject which I have chosen to call elementary fluid mechanics. The apparent conflict between scope of subject and beginner ability is only along mathematical lines; however, and the physical ideas of fluid mechanics are well within the reach of the beginner in the field. Holding to the belief that physical concepts are the sine qua non of mechanics, I have sacrificed mathematical rigor and detail in developing physical pictures and in many cases have stated general laws only without numerous exceptions and limitations in order to convey basic ideas. Such oversimplification is necessary in introducing a new subject to the beginner. Like other courses in mechanics, fluid mechanics must include disciplinary features as well as factual information; the beginner must follow theoretical developments, develop imagination in visualizing physical phenomena, and be forced to think his way through problems of theory and application. The text attempts to attain these objectives in the following ways: omission of subsidiary conclusions is designed to encourage the student to come to some conclusions by himself; application of bare principles to specific problems should develop ingenuity; illustrative problems are included to assist in overcoming numerical difficulties; and many numerical problems for the student to solve are intended not only to develop ingenuity but to show practical applications as well. Presentation of the subject begins with a discussion of fundamentals: physical properties and fluid statics. Frictionless flow is then discussed to bring out the applications of the principles of conservation of mass and energy and of impulse-momentum law to fluid motion. The principles of similarity and dimensional analysis are next taken up so that these principles may be used as tools in later developments. Frictional processes are discussed in a semi-quantitative fashion and the text proceeds to pipe and open channel flow. A chapter is devoted to the principles and apparatus for fluid measurements and the text ends with an elementary treatment of flow about immersed objects. Munson, Young and Okiishi's Fundamentals of Fluid

Mechanics Andrew L. Gerhart, John I. Hochstein, Philip M. Gerhart, 2021 Munson Young and Okiishi's Fundamentals of Fluid Mechanics is intended for undergraduate engineering students for use in a first course on fluid mechanics Building on the well established principles of fluid mechanics the book offers improved and evolved academic treatment of the subject Each important concept or notion is considered in terms of simple and easy to understand circumstances before more complicated features are introduced The presentation of material allows for the gradual development of student confidence in fluid mechanics problem solving This International Adaptation of the book comes with some new topics and updates on concepts that clarify enhance and expand certain ideas and concepts The new examples and problems build upon the understanding of engineering applications of fluid mechanics and the edition has been completely updated to use SI units *Elementary Fluid Mechanics* John King Vennard, Robert L. Street, 1983-09-01 **Fluid Mechanics for Civil Engineers** N.B.

Webber, 2018-10-08 This well established text book fills the gap between the general texts on fluid mechanics and the highly specialised volumes on hydraulic engineering It covers all aspects of hydraulic science normally dealt with in a civil engineering degree course and will be as useful to the engineer in practice as it is to the student and the teacher

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Vennard,1995-06-29 This edition retains the basic approach and style that has appealed to readers for over fifty years The first half focuses on fundamental physical and analytical principles The second half covers applications of those principles to flow in pipes and open channels lift and drag fluid machinery and compressible flow The final chapter is an introduction to an array of fluid measurements and the instruments for making them Liquid Pipeline Hydraulics E. Shashi Menon, Pramila S. Menon,2013-04 This book covers liquid pipeline hydraulics as it applies to transportation of liquids through pipelines in a single phase steady state environment It will serve as a practical handbook for engineers technicians and others involved in design and operation of pipelines transporting liquids Currently existing books on the subject are mathematically rigorous theoretical and lack practical applications Using this book engineers can better understand and apply the principles of hydraulics to their daily work in the pipeline industry without resorting to complicated formulas and theorems Numerous examples from the author's real life experience are included to illustrate application of pipeline hydraulics Principles Of Fluid Mechanics And Fluid Machines (second Edition) Narayana N. Pillai, C.R. Ramakrishnan, C.R. Ramakrishnan,2006 This book is intended to be used as a textbook for a first course in fluid mechanics It stresses on principles and takes the students through the various development in theory and applications A number of exercises are given at the end of each chapter all of which have been successfully class tested by the authors It will be ideally suited for students taking an undergraduate degree in engineering in all universities in India Fundamentals of Gas Turbines William W. Bathie,1995-12-12 Presents the fundamentals of the gas turbine engine including cycles components component matching and environmental considerations Fundamentals of Engineering National Council of Examiners for Engineering and Surveying,2003 NASA Technical Paper ,2006 **Scientific and Technical Books and Serials in Print** ,1984 *Elementary Fluid Mechanics ... Second Edition* John King Vennard,1947

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