

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

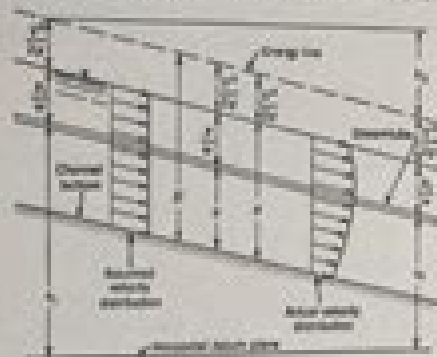


FIG. 100

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.

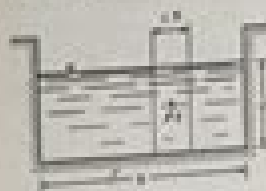


FIG. 101

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.

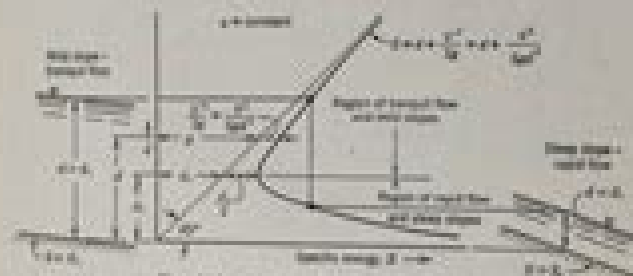


FIG. 102. The Specific Energy Diagram.

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

John K. Vennard, Robert L. Street



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, 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.

Thermofluids David Ting, 2022-04-11. *Thermofluids: From Nature to Engineering* presents the fundamentals of thermofluids in an accessible and student-friendly way. Author David Ting applies his 23 years of teaching to this practical reference which works to clarify phenomena, concepts, and processes via nature-inspired examples, giving the readers a well-rounded understanding of the topic. It introduces the fundamentals of thermodynamics, heat transfer, and fluid mechanics, which underpin most engineering systems, providing the reader with a solid basis to transfer and apply to other engineering disciplines. With a strong focus on ecology and sustainability, this book will benefit students in various engineering disciplines, including thermal energy, mechanical, and chemical, and will also appeal to those coming to the topic from another discipline. Presents abstract and complex concepts in a tangible, accessible way. Promotes the future of thermofluid systems with a focus on sustainability. Guides the reader through the fundamentals of thermofluids, which is essential for further study.

Acoustics of Ducts and Mufflers M. L. Munjal, 2014-02-04. Fully updated second edition of the premier reference book on muffler and lined duct acoustical performance. Engine exhaust noise pollutes the street environment, and ventilation fan noise enters dwellings along with fresh air. People have become conscious of their working environment. Governments of most countries have responded to popular demand with mandatory restrictions on sound emitted by automotive engines, and a thorough knowledge of acoustics of ducts and mufflers is needed for the design of efficient muffler configurations. This fully updated Second Edition of *Acoustics of Ducts and Mufflers* deals with propagation, reflection, and dissipation/absorption of sound along ducts, pipes, tubes, area discontinuities, perforated elements, and absorptive linings that constitute the present-day mufflers and silencers designed to control noise of exhaust and intake systems of automotive engines, diesel generator sets, compressors, and HVAC systems. It includes equations, figures, tables, references, and solved examples and unsolved exercises.

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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

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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

Engineering Thermofluids Mahmoud Massoud, 2005-09-16 Thermofluids while a relatively modern term is applied to the well established field of thermal sciences which is comprised of various intertwined disciplines Thus mass momentum and heat transfer constitute the fundamentals of thermofluids This book discusses thermofluids in the context of thermodynamics single and two phase flow as well as heat transfer associated with single and two phase flows Traditionally the field of thermal sciences is taught in universities by requiring students to study engineering thermodynamics fluid mechanics and heat transfer in that order In graduate school these topics are discussed at more advanced levels In recent years however there have been attempts to integrate these topics through a unified approach This approach makes sense as thermal design of widely varied systems ranging from hair dryers to semiconductor chips to jet engines to nuclear power plants is based on the conservation equations of mass momentum angular momentum energy and the second law of thermodynamics While integrating these topics has recently gained popularity it is hardly a new approach For example Bird Stewart and Lightfoot in Transport Phenomena Rohsenow and Choi in Heat Mass and Momentum Transfer El Wakil in Nuclear Heat Transport and Todreas and Kazimi in Nuclear Systems have pursued a similar approach These books however have been designed for advanced graduate level courses More recently undergraduate books using an integral approach are appearing

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