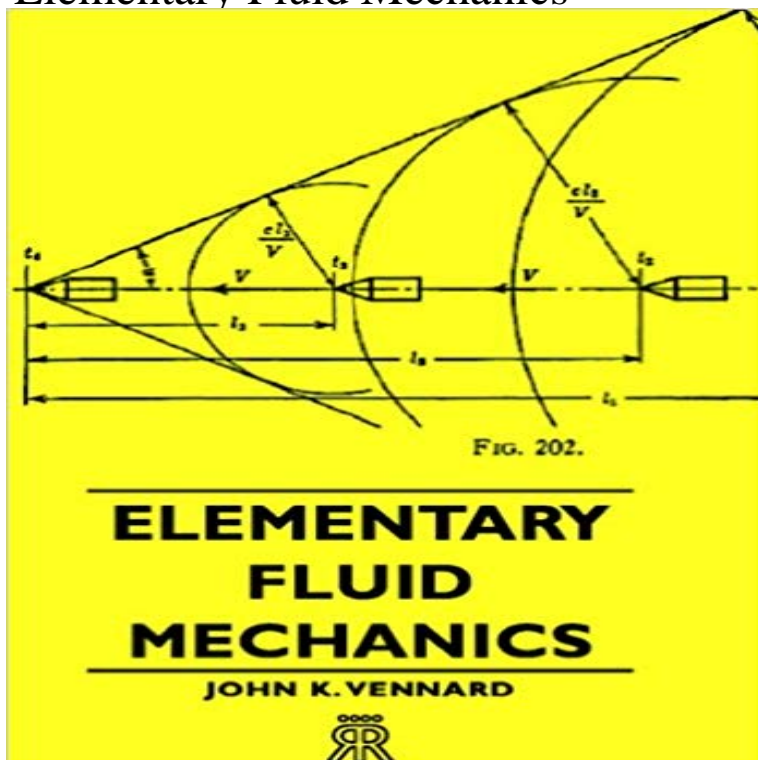


# Elementary Fluid Mechanics



ELEMENTARY FLUID MECHANICS  
 BY JOHN K. VENNARD Assistant  
 Professor of Fluid Mechanics New York  
 University. PREFACE: Fluid mechanics is  
 the study under all possible conditions of  
 rest and motion. Its approaches 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's  
 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.

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