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ELEMENTARY FLUID MECHANICS

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BY JOHN K. VENNARD Assistant
Professor of Fluid Mechanics
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PREFACE: Fluid mechanics is
the study under all possible
conditions of rest and
motion. Its approaches
analytical, rational, and

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Solutions 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

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Solutions 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

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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

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Solutions 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

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Solutions 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
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Solutions 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

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Solutions 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

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Solutions 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

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Solutions 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

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Solutions 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

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Solutions 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

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Solutions 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

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Solutions 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

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Solutions 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

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