

# Fluid Mechanics White 7th Edition Solutions Scribd

***“Engineering Fluid Dynamics 2018”. The topic of engineering fluid dynamics includes both experimental as well as computational studies. Of special interest were submissions from the fields of mechanical, chemical, marine, safety, and energy engineering. We welcomed both original research articles as well as review articles.***

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**After one year, 28 papers were submitted and 14 were accepted for publication. The average processing time was 37.91 days. The authors had the following geographical distribution: China (9); Korea (3); Spain (1); and India (1). Papers covered a wide range of topics, including analysis of fans, turbines, fires in tunnels, vortex generators, deep sea mining, as well as pumps. Master introductory mechanics with**  
**ANALYTICAL MECHANICS!**

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***Direct and practical, this physics text is designed to help you grasp the challenging concepts of physics. Specific cases are included to help you master theoretical material. Numerous worked examples found throughout increase your problem-solving skills and prepare you to succeed on tests. Fluid mechanics, the study of how fluids behave and interact under various forces and in various applied situations-whether in the***

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**liquid or gaseous state or both-is introduced and comprehensively covered in this widely adopted text. Revised and updated by Dr. David Dowling, Fluid Mechanics, Fifth Edition is suitable for both a first or second course in fluid mechanics at the graduate or advanced undergraduate level. The leading advanced general text on fluid mechanics, Fluid Mechanics, 5e includes a free copy of the DVD "Multimedia Fluid Mechanics," second**

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**edition. With the inclusion of the DVD, students can gain additional insight about fluid flows through nearly 1,000 fluids video clips, can conduct flow simulations in any of more than 20 virtual labs and simulations, and can view dozens of other new interactive demonstrations and animations, thereby enhancing their fluid mechanics learning experience. Text has been reorganized to provide a better flow**

***from topic to topic and to consolidate portions that belong together. Changes made to the book's pedagogy accommodate the needs of students who have completed minimal prior study of fluid mechanics. More than 200 new or revised end-of-chapter problems illustrate fluid mechanical principles and draw on phenomena that can be observed in everyday life. Includes free Multimedia Fluid Mechanics 2e DVD This text is intended for a first course in dynamic***

**systems and is designed for use by sophomore and junior majors in all fields of engineering, but principally mechanical and electrical engineers. All engineers must understand how dynamic systems work and what responses can be expected from various physical systems.**

**A Textbook of Fluid Mechanics and Hydraulic Machines**

**Student Solutions Manual and Student Study Guide  
Fundamentals of Fluid Mechanics, 7e**

## ***A Textbook of Fluid Mechanics Worlds of Flow***

This book is an update and extension of the classic textbook by Ludwig Prandtl, *Essentials of Fluid Mechanics*. It is based on the 10th German edition with additional material included. Chapters on wing aerodynamics, heat transfer, and layered flows have been revised and extended, and there are new chapters on fluid mechanical instabilities and biomedical fluid mechanics. References to the literature have been kept to a minimum, and the extensive historical citations may be found by referring to previous editions. This book is aimed at science and engineering students who wish to attain an overview of the various branches of fluid mechanics. It will also



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be useful as a reference for researchers working in the field of fluid mechanics. This book provides a broad and comprehensive coverage of the theoretical, experimental, and numerical techniques employed in the field of stress analysis. Designed to provide a clear transition from the topics of elementary to advanced mechanics of materials. Its broad range of coverage allows instructors to easily select many different topics for use in one or more courses. The highly readable writing style and mathematical clarity of the first edition are continued in this edition. Major revisions in this edition include: an expanded coverage of three-dimensional stress/strain transformations; additional topics from the theory of elasticity; examples and problems which test the

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mastery of the prerequisite elementary topics; clarified and additional topics from advanced mechanics of materials; new sections on fracture mechanics and structural stability; a completely rewritten chapter on the finite element method; a new chapter on finite element modeling techniques employed in practice when using commercial FEM software; and a significant increase in the number of end of chapter exercise problems some of which are oriented towards computer applications.

Provides undergraduates and practicing engineers with an understanding of the theory and applications behind the fundamental concepts of machine elements. This text includes examples and homework problems designed to test student understanding and build

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their skills in analysis and design.

Through ten editions, Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts, basic principles, and analysis methods of fluid mechanics. This market-leading textbook provides a balanced, systematic approach to mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly state assumptions, and relate mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the subject. Each comprehensive chapter includes numerous, easy-to-follow examples that

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illustrate good solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply the governing equations to various problems, and explain physical concepts to enable students to model real-world fluid flow situations. Topics include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems.

Prandtl ' s Essentials of Fluid Mechanics

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Problems and Solutions

Loose Leaf for Fluid Mechanics  
***Fundamentals of Fluid  
Mechanics, 7th Edition  
offers comprehensive  
topical coverage, with  
varied examples and  
problems, application of  
visual component of fluid  
mechanics, and strong  
focus on effective  
learning. The text enables  
the gradual development of  
confidence in problem  
solving. The authors' have  
designed their  
presentation to enable the  
gradual development of  
reader confidence in***

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***problem solving. Each important concept is introduced in easy-to-understand terms before more complicated examples are discussed. Continuing this book's tradition of extensive real-world applications, the 7th edition includes more Fluid in the News case study boxes in each chapter, new problem types, an increased number of real-world photos, and additional videos to augment the text material and help generate student interest in the topic. Example problems have been***

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*updated and numerous new photographs, figures, and graphs have been included. In addition, there are more videos designed to aid and enhance comprehension, support visualization skill building and engage students more deeply with the material and concepts. This new edition of the near-legendary textbook by Schlichting and revised by Gersten presents a comprehensive overview of boundary-layer theory and its application to all areas of fluid mechanics, with particular emphasis*

*on the flow past bodies (e.g. aircraft aerodynamics). The new edition features an updated reference list and over 100 additional changes throughout the book, reflecting the latest advances on the subject.*

*Offers a comprehensive presentation of the material that demonstrates the progression from physical concepts to engineering applications and helps students quickly see the practical importance of fluid mechanics fundamentals.*



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**THE FOURTH EDITION IN SI UNITS of Fundamentals of Thermal-Fluid Sciences presents a balanced coverage of thermodynamics, fluid mechanics, and heat transfer packaged in a manner suitable for use in introductory thermal sciences courses. By emphasizing the physics and underlying physical phenomena involved, the text gives students practical examples that allow development of an understanding of the theoretical underpinnings of thermal sciences. All**

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*the popular features of the previous edition are retained in this edition while new ones are added. THIS EDITION FEATURES: A New Chapter on Power and Refrigeration Cycles The new Chapter 9 exposes students to the foundations of power generation and refrigeration in a well-ordered and compact manner. An Early Introduction to the First Law of Thermodynamics (Chapter 3) This chapter establishes a general understanding of energy, mechanisms of energy*

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*transfer, and the concept of energy balance, thermo-economics, and conversion efficiency. Learning Objectives Each chapter begins with an overview of the material to be covered and chapter-specific learning objectives to introduce the material and to set goals. Developing Physical Intuition A special effort is made to help students develop an intuitive feel for underlying physical mechanisms of natural phenomena and to gain a mastery of solving practical problems that an*

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*engineer is likely to face in the real world. New Problems A large number of problems in the text are modified and many problems are replaced by new ones. Some of the solved examples are also replaced by new ones. Upgraded Artwork Much of the line artwork in the text is upgraded to figures that appear more three-dimensional and realistic. MEDIA RESOURCES: Limited Academic Version of EES with selected text solutions packaged with the text on the Student DVD. The Online Learning*

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**Center ([www.mheducation.com/olc/cengelFTFS4e](http://www.mheducation.com/olc/cengelFTFS4e))**

**offers online resources for instructors including PowerPoint® lecture**

**slides, and complete solutions to homework**

**problems. McGraw-Hill's**

**Complete Online Solutions**

**Manual Organization System**

**(<http://cosmos.mhhe.com/>)**

**allows instructors to**

**streamline the creation of assignments, quizzes, and**

**tests by using problems**

**and solutions from the**

**textbook, as well as their own custom material.**

**Fundamentals of Fluid**

**Mechanics**

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***Applied Fluid Mechanics:  
Global Edition  
Engineering Fluid  
Mechanics  
Munson, Young and  
Okiishi's Fundamentals of  
Fluid Mechanics***

By explaining basic equations, stating assumptions and then relating results to expected physical behavior, this new edition will help students to develop a systematic, orderly approach to problem solving. Aimed at an introductory course

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covering the basic elements of fluid mechanics, the study contains new material on fluid machinery, supersonic channel flow and more current data for real situations. Designed for higher level courses in viscous fluid flow, this text presents a comprehensive treatment of the subject. This revision retains the approach and organization for which the first edition has been highly regarded, while bringing the

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material completely up-to-date. It contains new information on the latest technological advances and includes many more applications, thoroughly updated problems and exercises. Massey has long been a best-selling textbook. This extensively revised and updated eighth edition, like its predecessors, presents the basic principles of the mechanics of fluids in a thorough and clear manner. It provides the essential material for



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an honours degree course in civil or mechanical engineering, in addition to providing much relevant material for undergraduate courses in aeronautical and chemical engineering. Emphasis is given to a sound physical understanding of fluid flow and its engineering applications, rather than to mathematical techniques. Students are introduced systematically to the subject, with the text moving from the simple

to the complex, and from the familiar to the unfamiliar. SI units are used throughout and there are many worked examples. The book is essentially self-contained. The opening chapter has been expanded to provide a broader introduction to fluid mechanics. New topics for this edition include basic applications of complex variable theory, the physics of tsunamis, procedures for the selection of pumps and

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fans, and the losses for flow through nozzles, orifice meters, perforated plates and gauzes. For lecturers, an accompanying solutions manual is available.

MECHANICS OF FLUIDS presents fluid mechanics in a manner that helps students gain both an understanding of, and an ability to analyze the important phenomena encountered by practicing engineers. The authors succeed in this through the use of

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several pedagogical tools that help students visualize the many difficult-to-understand phenomena of fluid mechanics. Explanations are based on basic physical concepts as well as mathematics which are accessible to undergraduate engineering students. This fourth edition includes a Multimedia Fluid Mechanics DVD-ROM which harnesses the interactivity of multimedia to improve the teaching and

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learning of fluid mechanics by illustrating fundamental phenomena and conveying fascinating fluid flows.

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Applied Fluid Mechanics  
The Finite Element  
Method

Analytical Mechanics  
Modeling and Analysis of  
Dynamic Systems

***Engineering Fluid***

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***Mechanics guides students from theory to application, emphasizing critical thinking, problem solving, estimation, and other vital engineering skills. Clear, accessible writing puts the focus on essential concepts, while abundant illustrations, charts, diagrams, and examples illustrate complex topics and highlight the physical reality of fluid dynamics applications. Over 1,000 chapter problems provide the “deliberate practice”—with feedback—that leads to material mastery, and***

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***discussion of real-world applications provides a frame of reference that enhances student comprehension. The study of fluid mechanics pulls from chemistry, physics, statics, and calculus to describe the behavior of liquid matter; as a strong foundation in these concepts is essential across a variety of engineering fields, this text likewise pulls from civil engineering, mechanical engineering, chemical engineering, and more to provide a broadly relevant, immediately practicable knowledge base.***

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***Written by a team of educators who are also practicing engineers, this book merges effective pedagogy with professional perspective to help today's students become tomorrow's skillful engineers.***

***Fundamentals of Fluid Mechanics offers comprehensive topical coverage, with varied examples and problems, application of visual component of fluid mechanics, and strong focus on effective learning. The text enables the gradual development of confidence***



***in problem solving. The authors have designed their presentation to enable the gradual development of reader confidence in problem solving. Each important concept is introduced in easy-to-understand terms before more complicated examples are discussed. Continuing this book's tradition of extensive real-world applications, the 7th edition includes more Fluid in the News case study boxes in each chapter, new problem types, an increased number of real-world photos, and***

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***additional videos to augment the text material and help generate student interest in the topic. Example problems have been updated and numerous new photographs, figures, and graphs have been included. In addition, there are more videos designed to aid and enhance comprehension, support visualization skill building and engage students more deeply with the material and concepts.***

***For all fluid mechanics, hydraulics, and related courses in Mechanical, Manufacturing, Chemical,***

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***Fluid Power, and Civil Engineering Technology and Engineering programs. The leading applications-oriented approach to engineering fluid mechanics is now in full color, with integrated software, new problems, and extensive new coverage. Now in full color with an engaging new design, Applied Fluid Mechanics, Seventh Edition, is the fully updated edition of the most popular applications-oriented approach to engineering fluid mechanics. It offers a clear and practical***

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***presentation of all basic principles of fluid mechanics (both statics and dynamics), tying theory directly to real devices and systems used in mechanical, chemical, civil, and environmental engineering. The 7th edition offers new real-world example problems and integrates the use of world-renowned PIPE-FLO® software for piping system analysis and design. It presents new procedures for problem-solving and design; more realistic and higher quality illustrations; and more coverage of many***

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***topics, including hose, plastic pipe, tubing, pumps, viscosity measurement devices, and computational fluid mechanics. Full-color images and color highlighting make charts, graphs, and tables easier to interpret organize narrative material into more manageable “chunks,” and make all of this text's content easier to study. Teaching and Learning Experience This applications-oriented introduction to fluid mechanics has been redesigned and improved to be more engaging,***

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***interactive, and pedagogically effective. Completely redesigned in full color, with additional pedagogical features, all designed to engage today's students: This edition contains many new full-color images, upgraded to improve realism, consistency, graphic quality, and relevance. New pedagogical features have been added to help students explore ideas more widely and review material more efficiently. Provides more hands-on practice and real-world applications, including new problems and software:***

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***Includes access to the popular PIPE-FLO® and Pump-Base® software packages, with detailed usage instructions; new real-world example problems; and more supplementary problems Updated and refined to reflect the latest products, tools, and techniques: Contains updated data and analysis techniques, improved problem solving and design techniques, new content on many topics, and extensive new references.***

***This book provides the first fully-fledged history of***

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***hydrodynamics, including lively accounts of the concrete problems of hydraulics, navigation, blood circulation, meteorology, and aeronautics that motivated the main conceptual innovations.***

***Richly illustrated, technically competent, and philosophically sensitive, it should attract a broad audience and become a standard reference for any one interested in fluid mechanics.***

***Fundamentals of Machine Elements***

***An Integrated Approach***



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***Its Basis and Fundamentals  
Schaum's Outline of  
Complex Variables, 2ed***

*Brings together classical  
and recent developments on  
the application of integral  
equation numerical*

*techniques for the solution  
of fluid dynamic problems.*

*The guide that helps  
students study faster, learn  
better, and get top grades*

*More than 40 million  
students have trusted*

*Schaum's to help them study  
faster, learn better, and get  
top grades. Now Schaum's is  
better than ever-with a new  
look, a new format with*

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*hundreds of practice problems, and completely updated information to conform to the latest developments in every field of study. Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.*

*Mechanical Design: An Integrated Approach provides a comprehensive, integrated approach to the subject of machine element*

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*design for Mechanical Engineering students and practicing engineers. The author's expertise in engineering mechanics is demonstrated in Part I (Fundamentals), where readers receive an exceptionally strong treatment of the design process, stress & strain, deflection & stiffness, energy methods, and failure/fatigue criteria. Advanced topics in mechanics (marked with an asterisk in the Table of Contents) are provided for optional use. The first 8*

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*chapters provide the conceptual basis for Part II (Applications), where the major classes of machine components are covered. Optional coverage of finite element analysis is included, in the final chapter of the text, with selected examples and cases showing FEA applications in mechanical design. In addition to numerous worked-out examples and chapter problems, detailed Case Studies are included to show the intricacies of real design work, and the integration of engineering mechanics*

*concepts with actual design procedures. The author provides a brief but comprehensive listing of derivations for users to avoid the "cookbook" approach many books take. Numerous illustrations provide a visual interpretation of the equations used, making the text appropriate for diverse learning styles. The approach is designed to allow for use of calculators and computers throughout, and to show the ways computer analysis can be used to model problems and*

*explore "what if?" design analysis scenarios. This collection of over 200 detailed worked exercises adds to and complements the textbook "Fluid Mechanics" by the same author, and, at the same time, illustrates the teaching material via examples. The exercises revolve around applying the fundamental concepts of "Fluid Mechanics" to obtain solutions to diverse concrete problems, and, in so doing, the students' skill in the mathematical modelling of practical problems is*

*developed. In addition, 30 challenging questions WITHOUT detailed solutions have been included. While lecturers will find these questions suitable for examinations and tests, students themselves can use them to check their understanding of the subject.*

*Fundamentals of Thermal-fluid Sciences*

*Advanced Strength and Applied Stress Analysis*

*Boundary Integral Methods in Fluid Mechanics*

*Fox and McDonald's Introduction to Fluid*

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## *Mechanics*

**Uncover Effective Engineering Solutions to Practical Problems With its clear explanation of fundamental principles and emphasis on real world applications, this practical text will motivate readers to learn. The author connects theory and analysis to practical examples drawn from engineering practice. Readers get a better understanding of how they can apply these concepts to develop engineering answers to various problems. By using simple**



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examples that illustrate basic principles and more complex examples representative of engineering applications throughout the text, the author also shows readers how fluid mechanics is relevant to the engineering field. These examples will help them develop problem-solving skills, gain physical insight into the material, learn how and when to use approximations and make assumptions, and understand when these approximations might break down. Key Features of the

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**Text \* The underlying physical concepts are highlighted rather than focusing on the mathematical equations. \* Dimensional reasoning is emphasized as well as the interpretation of the results. \* An introduction to engineering in the environment is included to spark reader interest. \* Historical references throughout the chapters provide readers with the rich history of fluid mechanics.**

**Intended for undergraduate-level courses in Fluid Mechanics or Hydraulics in**

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**Mechanical, Chemical, and  
Civil Engineering  
Technology and Engineering  
programs. This text covers  
various basic principles  
of fluid mechanics - both  
statics and dynamics.  
Fluid Mechanics  
Fluid  
Mechanics McGraw-Hill  
Science, Engineering &  
Mathematics  
Original edition: Munson,  
Young, and Okiishi in  
1990.  
Mechanics of Fluids,  
Eighth Edition  
Introduction to Fluid  
Mechanics  
Heat Transfer  
Mechanics of Fluids SI**

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## **Version**

*Nunn provides an overview of the topic of fluid mechanics, a subject often considered essential in college engineering programs. The Finite Element Method: Its Basis and Fundamentals offers a complete introduction to the basis of the finite element method, covering fundamental theory and worked examples in the detail required for readers to apply the knowledge to their own engineering problems and understand more advanced applications. This edition sees a significant rearrangement of the book's content to enable clearer development of the finite element method, with major new chapters and sections added to cover: Weak*

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*forms Variational forms Multi-dimensional field problems Automatic mesh generation Plate bending and shells Developments in meshless techniques Focusing on the core knowledge, mathematical and analytical tools needed for successful application, The Finite Element Method: Its Basis and Fundamentals is the authoritative resource of choice for graduate level students, researchers and professional engineers involved in finite element-based engineering analysis. A proven keystone reference in the library of any engineer needing to understand and apply the finite element method in design and development. Founded by an influential pioneer in the field*

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*and updated in this seventh edition by an author team incorporating academic authority and industrial simulation experience. Features reworked and reordered contents for clearer development of the theory, plus new chapters and sections on mesh generation, plate bending, shells, weak forms and variational forms.*

*One of the bestselling books in the field, Introduction to Fluid Mechanics continues to provide readers with a balanced and comprehensive approach to mastering critical concepts. The new seventh edition once again incorporates a proven problem-solving methodology that will help them develop an orderly plan to*

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*finding the right solution. It starts with basic equations, then clearly states assumptions, and finally, relates results to expected physical behavior. Many of the steps involved in analysis are simplified by using Excel.*

**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*



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*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*

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*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*

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*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*

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*to the principles and apparatus for  
fluid measurements, and the text  
ends with an elementary treatment  
of flow about immersed objects.*

*A Physical Introduction to Fluid  
Mechanics*

*Boundary-Layer Theory*

*Fluid Mechanics*

*A History of Hydrodynamics from  
the Bernoullis to Prandtl*