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A History and Philosophy of Fluid Mechanics *Fluid Mechanics Fundamental Mechanics of Fluids, Fourth Edition* **Basics of Fluid Mechanics** *Mechanics of Fluids A Textbook of Fluid Mechanics* **Handbook of Fluid Dynamics, Second Edition** *Prandtl-Essentials of Fluid Mechanics* **Fluid Mechanics** *Introductory Fluid Mechanics* **Fundamentals of Fluid Mechanics** *Elements of Fluid Dynamics* **Introduction to Fluid Mechanics** **Applied Fluid Mechanics** *A Textbook of Fluid Mechanics and Hydraulic Machines* **Advances in Fluid Mechanics IX A General Theory of Fluid Mechanics** *A Textbook of Fluid Mechanics* **LPSPE Intermediate fluid mechanics** *Fluid Mechanics* **Fundamentals of Fluid Mechanics** **Mathematical Aspects of Fluid Mechanics** *Fluid Mechanics Fundamentals and Applications* **Introduction to Practical Fluid Flow** **Fluid Mechanics Vectors, Tensors and the Basic Equations of Fluid Mechanics** **Fox and McDonald's Introduction to Fluid Mechanics** **Fluid Mechanics: a Very Short Introduction** *Foundations of Fluid Mechanics* *Advanced Fluid Mechanics* *Fluid Mechanics* *An Introduction to Fluid Mechanics* **Micro- and Nanoscale Fluid Mechanics** **Process Fluid Mechanics** *Encyclopedia of Fluid Mechanics: Dynamics of single-fluid flows and mixing* *Fluid Mechanics Engineering Fluid Mechanics Principles Of Fluid Mechanics And Fluid Machines (second Edition)* **Interfacial Fluid Mechanics**

Course of Theoretical Physics, Volume 6: Fluid Mechanics discusses several areas of concerns regarding fluid mechanics. The book provides a discussion on the phenomenon in fluid mechanics and their intercorrelations, such as heat transfer, diffusion in fluids, acoustics, theory of combustion, dynamics of superfluids, and relativistic fluid dynamics. The text will be of great interest to researchers whose work involves or concerns fluid mechanics. Fluid Mechanics, Second Edition deals with fluid mechanics, that is, the theory of the motion of liquids and gases. Topics covered range from ideal fluids and viscous fluids to turbulence, boundary layers, thermal conduction, and diffusion. Surface phenomena, sound, and shock waves are also discussed, along with gas flow, combustion, superfluids, and relativistic fluid dynamics. This book is comprised of 16 chapters and begins with an overview of the fundamental equations of fluid dynamics, including Euler's equation and Bernoulli's equation. The reader is then introduced to the equations of motion of a viscous fluid; energy dissipation in an incompressible fluid; damping of gravity waves; and the mechanism whereby turbulence occurs. The following chapters explore the laminar boundary layer; thermal conduction in fluids; dynamics of diffusion of a mixture of fluids; and the phenomena that occur near the surface separating two continuous media. The energy and momentum of sound waves; the direction of variation of quantities in a shock wave; one- and two-dimensional gas flow; and the intersection of surfaces of discontinuity are also also considered. This monograph will be of interest to theoretical physicists. This book discusses the basic formulations of fluid mechanics and their computer modelling, as well as the relationship between experimental and analytical results. Containing papers from the Ninth International Conference on Advances in Fluid Mechanics, this book discusses the basic formulations of fluid mechanics and their computer modelling, as well as the relationship between experimental and analytical results. Scientists, engineers, and other professionals interested in the latest developments in theoretical and computational fluid mechanics will find the book a useful addition to the literature. The book covers a wide range of topics, with emphasis on new applications and research currently in progress, including: Computational Methods

in Fluid Mechanics, Environmental Fluid Mechanics; Experimental Versus Simulation Methods; Multiphase Flow; Hydraulics and Hydrodynamics; Heat and Mass Transfer; Industrial Applications; Wave Studies; Biofluids; Fluid Structure Interaction. 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 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. Accompanying CD-ROM contains full text, review problems, extended laboratory problems, links to Fluids Phenomena videos, and key words and topics linked directly to where those concepts are explained in the text. This book provides a general introduction to fluid mechanics in the form of biographies and popular science. Based on the author's extensive teaching experience, it combines natural science and human history, knowledge inheritance and cognition law to replace abstract concepts of fluid mechanics with intuitive and understandable physical concepts. In seven chapters, it describes the development of fluid mechanics, aerodynamics, hydrodynamics, computational fluid dynamics, experimental fluid dynamics, wind tunnel and water tunnel equipment, the mystery of flight and aerodynamic principles, and leading figures in fluid mechanics in order to spark beginners' interest and allow them to gain a comprehensive understanding of the field's development. It also provides a list of references for further study.

Very Short Introductions: Brilliant, Sharp, Inspiring

Fluid mechanics is an important branch of physics concerned with the way in which fluids, such as liquids and gases, behave when in motion and at rest. A quintessential interdisciplinary field of science, it interacts with many other scientific disciplines, from chemistry and biology to mathematics and engineering. This Very Short Introduction introduces readers to the field of fluid mechanics by focusing on the fundamental physical ideas underlying it, and using everyday phenomena from daily life to demonstrate them, from dripping taps to swimming ducks. Following this set of core physical concepts, it shows how these underlying principles can be applied to a wide range of flow behaviours. Eric Lauga also highlights the role of fluid motion in both the natural and industrial world, and considers future applications of fluid mechanics in science.

ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Introduction to Fluid Mechanics is a mathematically efficient introductory text for a basal course in mechanical engineering. More rigorous than existing texts in the field, it is also distinguished by the choice and order of subject matter, its careful derivation and explanation of the laws of fluid mechanics, and its attention to everyday examples of fluid flow and common engineering applications. Beginning with the simple and proceeding to the complex, the text introduces the principles of fluid mechanics in orderly steps. At each stage practical engineering problems are solved, principally in engineering systems such as dams, pumps, turbines, pipe flows, propellers, and jets, but with occasional illustrations from physiological and meteorological flows. The approach builds on the student's experience with everyday fluid mechanics, showing how the scientific principles permit a quantitative understanding

of what is happening and provide a basis for designing engineering systems that achieve the desired objectives. Introduction to Fluid Mechanics differs from most engineering texts in several respects: The derivations of the fluid principles (especially the conservation of energy) are complete and correct, but concisely given through use of the theorems of vector calculus. This saves considerable time and enables the student to visualize the significance of these principles. More attention than usual is given to unsteady flows and their importance in pipe flow and external flows. Finally, the examples and exercises illustrate real engineering situations, including physically realistic values of the problem variables. Many of these problems require calculation of numerical values, giving the student experience in judging the correctness of his or her numerical skills. Through the centuries, the intricacies of fluid mechanics — the study of the laws of motion and fluids in motion — have occupied many of history's greatest minds. In this pioneering account, a distinguished aeronautical scientist presents a history of fluid mechanics focusing on the achievements of the pioneering scientists and thinkers whose inspirations and experiments lay behind the evolution of such disparate devices as irrigation lifts, ocean liners, windmills, fireworks and spacecraft. The author first presents the basics of fluid mechanics, then explores the advances made through the work of such gifted thinkers as Plato, Aristotle, da Vinci, Galileo, Pascal, Newton, Bernoulli, Euler, Lagrange, Ernst Mach and other scientists of the 20th century. Especially important for its illuminating comparison of the development of fluid mechanics in the former Soviet Union with that in the West, the book concludes with studies of transonic compressibility and aerodynamics, supersonic fluid mechanics, hypersonic gas dynamics and the universal matter-energy continuity. Professor G. A. Tokaty has headed the prestigious Aeronautical Research Laboratory at the Zhukovsky Academy of Aeronautics in Moscow, and has taught at the University of California, Los Angeles. He is Emeritus Professor of Aeronautics and Space Technology, The City University, London. 161 illustrations.

Preface. Fluid mechanics is a core component of many undergraduate engineering courses. It is essential for both students and lecturers to have a comprehensive, highly illustrated textbook, full of exercises, problems and practical applications to guide them through their study and teaching. Engineering Fluid Mechanics By William P. Grabel is that book The ISE version of this comprehensive text is especially priced for the student market and is an essential textbook for undergraduates (particularly those on mechanical and civil engineering courses) designed to emphasize the physical aspects of fluid mechanics and to develop the analytical skills and attitudes of the engineering student. Example problems follow most of the theory to ensure that students easily grasp the calculations, step by step processes outline the procedure used, so as to improve the students' problem solving skills. An Appendix is included to present some of the more general considerations involved in the design process. The author also links fluid mechanics to other core engineering courses an undergraduate must take (heat transfer, thermodynamics, mechanics of materials, statistics and dynamics) wherever possible, to build on previously learned knowledge.

"Why Study Fluid Mechanics? 1.1 Getting Motivated Flows are beautiful and complex. A swollen creek tumbles over rocks and through crevasses, swirling and foaming. A child plays with sticky taffy, stretching and reshaping the candy as she pulls it and twist it in various ways. Both the water and the taffy are fluids, and their motions are governed by the laws of nature. Our goal is to introduce the reader to the analysis of flows using the laws of physics and the language of mathematics. On mastering this material, the reader becomes able to harness flow to practical ends or to create beauty through fluid design. In this text we delve deeply into the mathematical analysis of flows, but before beginning, it is reasonable to ask if it is necessary to make this significant mathematical effort. After all, we can appreciate a flowing stream without understanding why it behaves as it does. We can also operate machines that rely on fluid behavior - drive a car for exam- 15 behavior? mathematical analysis. ple - without understanding the fluid dynamics of the engine, and we can even repair and maintain engines, piping networks, and other complex systems without having studied the mathematics of flow What is the purpose, then, of learning to mathematically describe fluid The answer to this question is quite practical: knowing the patterns fluids form and why they are formed, and knowing the stresses fluids generate and why they are generated is essential to

designing and optimizing modern systems and devices. While the ancients designed wells and irrigation systems without calculations, we can avoid the wastefulness and tediousness of the trial-and-error process by using mathematical models"-- The objective of this introductory text is to familiarise students with the basic elements of fluid mechanics so that they will be familiar with the jargon of the discipline and the expected results. At the same time, this book serves as a long-term reference text, contrary to the oversimplified approach occasionally used for such introductory courses. The second objective is to provide a comprehensive foundation for more advanced courses in fluid mechanics (within disciplines such as mechanical or aerospace engineering). In order to avoid confusing the students, the governing equations are introduced early, and the assumptions leading to the various models are clearly presented. This provides a logical hierarchy and explains the interconnectivity between the various models. Supporting examples demonstrate the principles and provide engineering analysis tools for many engineering calculations. Introduction to Practical Fluid Flow provides information on the the solution of practical fluid flow and fluid transportation problems through the application of fluid dynamics. Emphasising the solution of practical operating and design problems, the text concentrates on computer-based methods throughout, in keeping with trends in engineering. With a focus on the flow of slurries and non-Newtonian fluids, it will be useful for and engineering students who have to deal with practical fluid flow problems. Emphasises flow of slurries and Non-Newtonian fluids. Covers the application of fluid dynamics to the solution of practical fluid flow and fluid transportation problems. Fluid mechanics is the study of how fluids behave and interact under various forces and in various applied situations, whether in liquid or gas state or both. The author of Advanced Fluid Mechanics compiles pertinent information that are introduced in the more advanced classes at the senior level and at the graduate level. "Advanced Fluid Mechanics courses typically cover a variety of topics involving fluids in various multiple states (phases), with both elastic and non-elastic qualities, and flowing in complex ways. This new text will integrate both the simple stages of fluid mechanics ("Fundamentals) with those involving more complex parameters, including Inviscid Flow in multi-dimensions, Viscous Flow and Turbulence, and a succinct introduction to Computational Fluid Dynamics. It will offer exceptional pedagogy, for both classroom use and self-instruction, including many worked-out examples, end-of-chapter problems, and actual computer programs that can be used to reinforce theory with real-world applications. Professional engineers as well as Physicists and Chemists working in the analysis of fluid behavior in complex systems will find the contents of this book useful. All manufacturing companies involved in any sort of systems that encompass fluids and fluid flow analysis (e.g., heat exchangers, air conditioning and refrigeration, chemical processes, etc.) or energy generation (steam boilers, turbines and internal combustion engines, jet propulsion systems, etc.), or fluid systems and fluid power (e.g., hydraulics, piping systems, and so on)will reap the benefits of this text. Offers detailed derivation of fundamental equations for better comprehension of more advanced mathematical analysis Provides groundwork for more advanced topics on boundary layer analysis, unsteady flow, turbulent modeling, and computational fluid dynamics Includes worked-out examples and end-of-chapter problems as well as a companion web site with sample computational programs and Solutions Manual Fluid Mechanics is the branch of physics concerned with the mechanics of fluids and forces acting on them. It includes unlimited practical applications ranging from microscopic biological systems to automobiles, airplanes and spacecraft propulsion. Fluid Mechanics is the study of fluid behavior at rest and in motion. It also gives information about devices used to measure flow rate, pressure and velocity of fluid. The book uses plain, Lucid language to explain fundamentals of this subject. The book provides logical method of explaining various complicated concepts and stepwise methods to explain the important topics. Each chapter is well supported with necessary illustrations, practical examples and solved problems. All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies. All care has been taken to make readers comfortable in understanding the basic concepts of the subject. Nunn provides an overview of the topic of fluid mechanics, a subject often considered essential in college engineering programs. The sixth edition of this established text provides an excellent and comprehensive

treatment of fluid mechanics that is concisely written and supported by numerous worked examples. This revision of a classic text presents relevant material for mechanical and civil engineers, as well as energy and environmental services engineers. It recognises the evolution of the subject and provides thorough coverage of both established theory and emerging topics. Fluid Mechanics is ideal for use throughout a first degree course in all engineering disciplines where a good understanding of the subject is required. It is also suitable for conversion MSc courses requiring a fundamental treatment of Fluid Mechanics and will be a valuable resource for specialist Continuing Professional Development courses, including those offered by distance learning. An applications-oriented introduction to process fluid mechanics. Provides an orderly treatment of the essentials of both the macro and micro problems of fluid mechanics. Elements of Fluid Dynamics is intended to be a basic textbook, useful for undergraduate and graduate students in different fields of engineering, as well as in physics and applied mathematics. The main objective of the book is to provide an introduction to fluid dynamics in a simultaneously rigorous and accessible way, and its approach follows the idea that both the generation mechanisms and the main features of the fluid dynamic loads can be satisfactorily understood only after the equations of fluid motion and all their physical and mathematical implications have been thoroughly assimilated. Therefore, the complete equations of motion of a compressible viscous fluid are first derived and their physical and mathematical aspects are thoroughly discussed. Subsequently, the necessity of simplified treatments is highlighted, and a detailed analysis is made of the assumptions and range of applicability of the incompressible flow model, which is then adopted for most of the rest of the book. Furthermore, the role of the generation and dynamics of vorticity on the development of different flows is emphasized, as well as its influence on the characteristics, magnitude and predictability of the fluid dynamic loads acting on moving bodies. The book is divided into two parts which differ in target and method of utilization. The first part contains the fundamentals of fluid dynamics that are essential for any student new to the subject. This part of the book is organized in a strictly sequential way, i.e. each chapter is assumed to be carefully read and studied before the next one is tackled, and its aim is to lead the reader in understanding the origin of the fluid dynamic forces on different types of bodies. The second part of the book is devoted to selected topics that may be of more specific interest to different students. In particular, some theoretical aspects of incompressible flows are first analysed and classical applications of fluid dynamics such as the aerodynamics of airfoils, wings and bluff bodies are then described. The one-dimensional treatment of compressible flows is finally considered, together with its application to the study of the motion in ducts. Sample Chapter(s) Chapter 1: Introduction (133 KB) Request Inspection Copy Written with the second-year engineering students of undergraduate level in mind, this well set out textbook explains the fundamentals of Fluid Mechanics. Written in question-answer form, the book is precise and easy to understand. The book presents an e This book provides professionals in the field of fluid dynamics with a comprehensive guide and resource. It balances three traditional areas of fluid mechanics - theoretical, computational, and experimental - and expounds on basic science and engineering techniques. Each chapter introduces a topic, discusses the primary issues related to this subject, outlines approaches taken by experts, and supplies references for further information. The text enables experts in particular areas to become familiar with useful information from outside their specialization, providing a broad reference for the significant areas within fluid dynamics. 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. Ludwig Prandtl has been called the father of modern fluid mechanics, and this updated and extended edition of his classic text on the field is based on the 12th German edition with additional material included. This text focuses on the physics of fluid transport in micro- and nanofabricated liquid-phase systems, with consideration of gas bubbles, solid particles, and macromolecules. This text was designed with the goal of bringing together several areas that are

often taught separately - namely, fluid mechanics, electrodynamics, and interfacial chemistry and electrochemistry - with a focused goal of preparing the modern microfluidics researcher to analyse and model continuum fluid mechanical systems encountered when working with micro- and nanofabricated devices. This text serves as a useful reference for practising researchers but is designed primarily for classroom instruction. Worked sample problems are included throughout to assist the student, and exercises at the end of each chapter help facilitate class learning. This successful textbook emphasizes the unified nature of all the disciplines of Fluid Mechanics as they emerge from the general principles of continuum mechanics. The different branches of Fluid Mechanics, always originating from simplifying assumptions, are developed according to the basic rule: from the general to the specific. The first part of the book contains a concise but readable introduction into kinematics and the formulation of the laws of mechanics and thermodynamics. The second part consists of the methodical application of these principles to technology. In addition, sections about thin-film flow and flow through porous media are included. Introductory text, geared toward advanced undergraduate and graduate students, applies mathematics of Cartesian and general tensors to physical field theories and demonstrates them in terms of the theory of fluid mechanics. 1962 edition. "A Textbook of Fluid Mechanics" provides a comprehensive coverage of the syllabus of Fluid Mechanics for different technical universities in India. Fluid mechanics has several categories, such as include Fluid kinematics, Fluid statics and Fluid dynamics. A total of 16 chapters followed by two special chapters of 'Universities' Questions (Latest) with Solutions' and 'GATE and UPSC Examinations' Questions with Answers/Solutions' after each unit also make it an excellent resource for aspirants of various entrance examinations. Interfacial Fluid Mechanics: A Mathematical Modeling Approach provides an introduction to mathematical models of viscous flow used in rapidly developing fields of microfluidics and microscale heat transfer. The basic physical effects are first introduced in the context of simple configurations and their relative importance in typical microscale applications is discussed. Then, several configurations of importance to microfluidics, most notably thin films/droplets on substrates and confined bubbles, are discussed in detail. Topics from current research on electrokinetic phenomena, liquid flow near structured solid surfaces, evaporation/condensation, and surfactant phenomena are discussed in the later chapters. As in previous editions, this ninth edition of Massey's *Mechanics of Fluids* introduces the basic principles of fluid mechanics in a detailed and clear manner. This bestselling textbook provides the sound physical understanding of fluid flow that is essential for an honours degree course in civil or mechanical engineering as well as courses in aeronautical and chemical engineering. Focusing on the engineering applications of fluid flow, rather than mathematical techniques, students are gradually introduced to the subject, with the text moving from the simple to the complex, and from the familiar to the unfamiliar. In an all-new chapter, the ninth edition closely examines the modern context of fluid mechanics, where climate change, new forms of energy generation, and fresh water conservation are pressing issues. SI units are used throughout and there are many worked examples. Though the book is essentially self-contained, where appropriate, references are given to more detailed or advanced accounts of particular topics providing a strong basis for further study. For lecturers, an accompanying solutions manual is available. *Fundamental Mechanics of Fluids*, Fourth Edition addresses the need for an introductory text that focuses on the basics of fluid mechanics—before concentrating on specialized areas such as ideal-fluid flow and boundary-layer theory. Filling that void for both students and professionals working in different branches of engineering, this versatile instructional resource comprises five flexible, self-contained sections: *Governing Equations* deals with the derivation of the basic conservation laws, flow kinematics, and some basic theorems of fluid mechanics. *Ideal-Fluid Flow* covers two- and three-dimensional potential flows and surface waves. *Viscous Flows of Incompressible Fluids* discusses exact solutions, low-Reynolds-number approximations, boundary-layer theory, and buoyancy-driven flows. *Compressible Flow of Inviscid Fluids* addresses shockwaves as well as one- and multidimensional flows. *Methods of Mathematical Analysis* summarizes some commonly used analysis techniques. Additional appendices offer a synopsis of vectors, tensors, Fourier series, thermodynamics, and the

governing equations in the common coordinate systems. The book identifies the phenomena associated with the various properties of compressible, viscous fluids in unsteady, three-dimensional flow situations. It provides techniques for solving specific types of fluid-flow problems, and it covers the derivation of the basic equations governing the laminar flow of Newtonian fluids, first assessing general situations and then shifting focus to more specific scenarios. The author illustrates the process of finding solutions to the governing equations. In the process, he reveals both the mathematical methodology and physical phenomena involved in each category of flow situation, which include ideal, viscous, and compressible fluids. This categorization enables a clear explanation of the different solution methods and the basis for the various physical consequences of fluid properties and flow characteristics. Armed with this new understanding, readers can then apply the appropriate equation results to deal with the particular circumstances of their own work. Cengel and Cimbala's *Fluid Mechanics Fundamentals and Applications*, communicates directly with tomorrow's engineers in a simple yet precise manner. The text covers the basic principles and equations of fluid mechanics in the context of numerous and diverse real-world engineering examples. The text helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics, using figures, numerous photographs and visual aids to reinforce the physics. The highly visual approach enhances the learning of Fluid mechanics by students. This text distinguishes itself from others by the way the material is presented - in a progressive order from simple to more difficult, building each chapter upon foundations laid down in previous chapters. In this way, even the traditionally challenging aspects of fluid mechanics can be learned effectively. McGraw-Hill's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty. 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. The rigorous mathematical theory of the equations of fluid dynamics has been a focus of intense activity in recent years. This volume is the product of a workshop held at the University of Warwick to consolidate, survey and further advance the subject. The Navier-Stokes equations feature prominently: the reader will find new results concerning feedback stabilisation, stretching and folding, and decay in norm of solutions to these fundamental equations of fluid motion. Other topics covered include new models for turbulent energy cascade, existence and uniqueness results for complex fluids and certain interesting solutions of the SQG equation. The result is an accessible collection of survey articles and more traditional research papers that will serve both as a helpful overview for graduate students new to the area and as a useful resource for more established researchers. Fluid mechanics embraces engineering, science, and medicine. This book's logical organization begins with an introductory chapter summarizing the history of fluid mechanics and then moves on to the essential mathematics and physics needed to understand and work in fluid mechanics. Analytical treatments are based on the Navier-Stokes equations. The book also fully addresses the numerical and experimental methods applied to flows. This text is specifically written to meet the needs of students in engineering and science. Overall, readers get a sound introduction to fluid mechanics.

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