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Fluid mechanics is the study of fluid behavior (liquids, gases, blood, and plasmas) at rest and in motion. Fluid mechanics has a wide range of applications in mechanical and chemical engineering, in biological systems, and in astrophysics. In this chapter fluid mechanics and its application in biological systems are presented and discussed.

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Fluid mechanics is the branch of physics concerned with the mechanics of fluids and the forces on them. It has applications in a wide range of disciplines, including mechanical, civil,



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chemical and biomedical engineering, geophysics, oceanography, meteorology, astrophysics, and biology. It can be divided into fluid statics, the study of fluids at rest; and fluid dynamics, the study of the effect of forces on fluid motion. It is a branch of continuum mechanics, a subject which models matter witho

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Fluid pressure is computed from  $p = F/A$  (3-1) The standard unit for pressure in SI units is the pascal (Pa)

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or  $\text{N/m}^2$ . Whereas the standard unit for pressure in the V.S. Customary System is  $\text{lb/ft}^2$ , the unit  $\text{lb/in}^2$  (psi) is more convenient and is used most often.

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The main areas of research within the current group are: Theoretical and applied fluid mechanics. Free-surface flows, dynamics of liquid films and jets, hydrodynamic stability theory, laminar-turbulent transition mechanisms, boundary-layer and wake flow instabilities, boundary layer flow control, viscoelastic flows, bubble dynamics, constitutive modelling of polymeric liquids.

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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 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



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more engaging, 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: 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

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updated data and analysis techniques, improved problem solving and design techniques, new content on many topics, and extensive new references.

The contents of this book covers the material required in the Fluid Mechanics Graduate Core Course (MEEN-621) and in Advanced Fluid Mechanics, a Ph. D-level elective course (MEEN-622), both of which I have been teaching at Texas A&M University for the past two decades. While there are numerous undergraduate fluid mechanics texts on the market for engineering students and instructors to choose from, there are only limited texts that

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comprehensively address the particular needs of graduate engineering fluid mechanics courses. To complement the lecture materials, the instructors more often recommend several texts, each of which treats special topics of fluid mechanics. This circumstance and the need to have a textbook that covers the materials needed in the above courses gave the impetus to provide the graduate engineering community with a coherent textbook that comprehensively addresses their needs for an advanced fluid mechanics text. Although this text book is primarily aimed at mechanical engineering students, it is equally suitable for aerospace engineering, civil engineering, other engineering disciplines, and especially those practicing professionals who perform

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CFD-simulation on a routine basis and would like to know more about the underlying physics of the commercial codes they use. Furthermore, it is suitable for self study, provided that the reader has a sufficient knowledge of calculus and differential equations. In the past, because of the lack of advanced computational capability, the subject of fluid mechanics was artificially subdivided into inviscid, viscous (laminar, turbulent), incompressible, compressible, subsonic, supersonic and hypersonic flows.

Designed for the fluid mechanics course for mechanical, civil, and aerospace engineering students, or as a reference for professional engineers, this up to date text uses computer algorithms and applications to solve

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modern problems related to fluid flow, aerodynamics, and thermodynamics. Algorithms and codes for numerical solutions of fluid problems, which can be implemented in programming environments such as MATLAB, are used throughout the book. The author also uses non-language specific algorithms to force the students to think through the logic of the solution technique as they translate the algorithm into the software they are using. The text also includes an introduction to Computational Fluid Dynamics, a well-established method in the design of fluid machinery and heat transfer applications. A DVD accompanies every new printed copy of the book and contains the source code, MATLAB files, third-party simulations, color figures, and more.

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Basic knowledge about fluid mechanics is required in various areas of water resources engineering such as designing hydraulic structures and turbomachinery. The applied fluid mechanics laboratory course is designed to enhance civil engineering students' understanding and knowledge of experimental methods and the basic principle of fluid mechanics and apply those concepts in practice. The lab manual provides students with an overview of ten different fluid mechanics laboratory experiments and their practical applications. The objective, practical applications, methods, theory, and the equipment required to perform each experiment are presented. The experimental procedure, data collection, and presenting the results are explained in detail. LAB

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This comprehensive volume enables readers to develop an understanding of the principles of fluid mechanics and to utilize problem-solving approaches for handling, transferring, and processing fluids. Applied Fluid Mechanics emphasizes microscopic differential transport and lubrication type flows, which are essential in the emerging area of materials processing; covers hydrostatics and capillarity, piping and hydraulics problems, meteorology and air pollution, materials processing, flows, thin film and coating flows, lubrication and stretching flows, and turbulent flows and mixing; presents step-by-

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step instruction reasoning and examples, providing a systematic approach to solving both macroscopic and microscopic problems; and offers convenient dual approaches to flow analysis, by control volume and by the Navier-Stokes equations.

This handbook provides a summary of theoretical, experimental, and statistical data on fluid flows. The text makes extensive use of tables and graphics so that engineers students, and researchers can rapidly locate accurate and up-to-date data. The emphasis is on applied fluid dynamics, in particular practical problems such as fluid dynamic drag, pipe and duct flow, and nozzles and diffusers, which have direct practical applications.



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