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This is a revised introduction to the physical concepts and mathematics of fluid mechanics. It reinforces concepts with equations and solutions for relatively simple geometrics, through examples, worked problems and derivations, demonstrated in easy stages. Although the book emphasizes SI units, approximately one quarter of the worked examples and problems are duplicated with English units, and all properties and dimensional constants are provided in both SI and English units. It also includes computer-based Basic and spread sheet solutions in the sections on open channel and pipe network flows.

In this new edition of Fluid Mechanics, which is a revised and substantially expanded version of the first edition, several new topics like open channel flow, hydraulic turbines, hydraulic transients, flow measurements and pumps and fans have been added. The chapter on one-dimensional viscous flow has also been expanded. With the addition of five new chapters, the treatment is now more indepth and comprehensive. The book gives a thorough analysis of topics such as fluid statics, fluid kinematics, analysis of finite control volumes, and the mechanical energy equation. It provides a comprehensive description of one- dimensional viscous flow,

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dimensional analysis, two-dimensional flow of ideal fluids, and normal and oblique shocks. Each chapter ends with a Summary and Exercises, which enables the student to recapture the topics discussed and drill him in the theory. Finally, the worked-out examples\_ with solutions to most of them\_ should be of considerable assistance to the reader in comprehending the problems discussed. The book should prove to be an ideal text for the undergraduate students of Civil and Mechanical Engineering and as a ready reference for the first-level postgraduate student.

div="" style="" This book comprises select proceedings of the 46th National Conference on Fluid Mechanics and Fluid Power (FMFP 2019). The contents of this book focus on aerodynamics and flow control, computational fluid dynamics, fluid structure interaction, noise and aero-acoustics, unsteady and pulsating flows, vortex dynamics, nuclear thermal hydraulics, heat transfer in nanofluids, etc. This book serves as a useful reference beneficial to researchers, academicians and students interested in the broad field of mechanics. ^

Heat transfer and fluid flow issues are of great significance and this state-of-the-art edited book with reference to new and innovative numerical methods will make a contribution for researchers in academia and research organizations, as well as industrial scientists and college students. The book provides comprehensive chapters on research and developments in emerging topics in computational methods, e.g., the finite volume method, finite element method as well as turbulent flow computational methods. Fundamentals of the numerical methods, comparison of various higher-order schemes for convection-diffusion terms, turbulence modeling,



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the pressure-velocity coupling, mesh generation and the handling of arbitrary geometries are presented. Results from engineering applications are provided. Chapters have been co-authored by eminent researchers.

Hydraulics and Pneumatics: A Technician's and Engineer's Guide provides an introduction to the components and operation of a hydraulic or pneumatic system. This book discusses the main advantages and disadvantages of pneumatic or hydraulic systems. Organized into eight chapters, this book begins with an overview of industrial prime movers. This text then examines the three different types of positive displacement pump used in hydraulic systems, namely, gear pumps, vane pumps, and piston pumps. Other chapters consider the pressure in a hydraulic system, which can be quickly and easily controlled by devices such as unloading and pressure regulating valves. This book discusses as well the importance of control valves in pneumatic and hydraulic systems to regulate and direct the flow of fluid from compressor or pump to the various load devices. The final chapter deals with the safe-working practices of the systems. This book is a valuable resource for process control engineers.

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

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("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

This book provides senior undergraduates who are already familiar with inviscid fluid dynamics with some of the basic facts about the modelling and analysis of viscous flows.

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