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Fluid mechanics helps us understand the behavior of fluid

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In almost whole of the world, “ Fluid Mechanics with Engineering Applications by Finnemore and Franzini ” is used as a textbook, the book is written in very simple English with practical applications along with thousands of practical field oriented numerical to test the knowledge and judgment of the fluid engineer.

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This book is well known and well respected in the civil engineering market and has a following among civil engineers. This book is for civil engineers that teach fluid mechanics both within their discipline and as a service course to mechanical engineering students. As with all previous editions this 10th edition is extraordinarily accurate, and its coverage of open channel flow and transport is superior. There is a broader coverage of all topics in this edition of Fluid Mechanics with Engineering Applications. Furthermore, this edition has numerous computer-related problems that can be solved in Matlab and Mathcad. The solutions to these problems will be at a password protected web site.

Provides the definition, equations and derivations that characterize the foundation of fluid mechanics utilizing minimum mathematics required for clarity yet retaining academic integrity. The text focuses on pipe flow, flow in open channels, flow measurement methods, forces on immersed objects, and unsteady flow. It includes over 50 fully solved problems to illustrate each concept. Three chapters of the book are reprinted from Fundamental Fluid Mechanics for the Practical Engineer by James W. Murdock.

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The book aims at providing to master and PhD students the basic knowledge in fluid mechanics for chemical engineers. Applications to mixing and reaction and to mechanical separation processes are addressed. The first part of the book presents the principles of fluid mechanics used by chemical engineers, with a focus on global theorems for describing the behavior of hydraulic systems. The second part deals with turbulence and its application for stirring, mixing and chemical reaction. The third part addresses mechanical separation processes by considering the dynamics of particles in a flow and the processes of filtration, fluidization and centrifugation. The mechanics of granular media is finally discussed.

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 comprehensively

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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 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.

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