

Fluid Mechanics, Fifth Edition

By Pijush K. Kundu, Ira M. Cohen, David R Dowling Ph.D.

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Fluid mechanics, the study of how fluids behave and interact under various forces and in various applied situations?whether in the 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, 5e* is suitable for both a first or second course in fluid mechanics at the graduate or advanced undergraduate level.

- Along with more than 100 new figures, the text has been reorganized and consolidated to provide a better flow and more cohesion of topics.
- Changes made to the book's pedagogy in the first several chapters 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

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Editorial Review

From the Back Cover

Fluid mechanics, the study of how fluids behave and interact under various forces and in various applied situations whether in the 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, Kundu & Cohen's Fluid Mechanics, 5e includes a free copy of the DVD "Multimedia Fluid Mechanics," second 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.

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About the Author
While in college, David R. Dowling held summer positions at Hughes Aircraft Co. and the Los Angeles Air Force Station. He completed his doctorate in 1988 at Graduate Aeronautical Laboratories of the California Institute of Technology and moved north to Seattle to accomodate his wife's career in medicine. While there, he worked for a year in the laser technology group at Boeing Aerospace, and then for almost three years as a post-doc at the Applied Physics Laboratory of the University of Washington. In 1992, he accepted a faculty position at the University of Michigan. Prof. Dowling is currently conducting research in acoustics and fluid mechanics. He is a fellow of the Acoustical Society of America, a member of the American Society of Mechanical Engineers, and a member of the American Physical Society. He is a US citizen.

Positions at the University of Michigan :

Professor, Sept 2005 to Present

Associate Professor, Sept 1999 thru August 2005

Assistant Professor, Sept 1992 thru August 1999

Visiting Assistant Professor, July 1992 thru August 1992

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