



Mechanics of Fluids, SI Version

By Merle C. Potter, David C. Wiggert

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MECHANICS OF FLUIDS presents fluid mechanics so that students gain an understanding of and an ability to analyze the important phenomena encountered by practicing engineers. The authors succeed in this through the use of several pedagogical tools (Margin Notes, Chapter Outlines, Summaries, and a nomenclature list) that help students visualize the many difficult-to-understand phenomena of fluid mechanics. Potter and Wiggert base their explanations on basic physical concepts and mathematics which are accessible to undergraduate engineering students, such as differential equations and vector algebra.

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Review

"Good content coverage, very readable, written at the right level for our students, and good example problems and homework problems."

"It is clear, comprehensive, presents clear learning objectives at the beginning of each chapter, has a great number of problems at the end of each chapter, and highlights important information in the margin."

"Provides comprehensive coverage of core material. Worked examples are detailed and very good. Chapter on flow measurements is valuable and not common in most other FM books."

About the Author

Dr. Merle C. Potter holds a B.S. in Mechanical Engineering and an M.S. in Engineering Mechanics from Michigan Technological University, as well as an M.S. in Aerospace Engineering and a Ph.D. in Engineering Mechanics from the University of Michigan. Dr. Potter taught for 40 years, including 33 of years at Michigan State University where he taught thermodynamics, fluid mechanics and numerous other courses. Dr. Potter has authored and co-authored 35 textbooks, help books, and engineering exam review books. He has specialized in fluid flow stability and energy research. He has received numerous awards, including the Ford Faculty Scholarship, the Teacher-Scholar Award, the ASME Centennial Award, the MSU Mechanical Engineering Faculty Award, and the James Harry Potter Thermodynamics Gold Medal. Dr. Potter is a member of ASEE, ASME, and the American Academy of Mechanics.

Dr. David C. Wiggert earned his Ph.D. in Civil Engineering from the University of Michigan and serves as Professor Emeritus of Civil and Environmental Engineering at Michigan State University. He was the recipient of the J.C. Stevens Award, ASCE, (1977), the L.F. Moody Award, ASME, (1983), and is a Fellow of ASME (1996). His research experience is in fluid transients and groundwater flows.

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