



# Fluid Dynamics for Physicists

By T. E. Faber



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It is over three hundred and fifty years since Torricelli discovered the law obeyed by fountains, yet fluid dynamics remains an active and important branch of physics. This book provides an accessible and comprehensive account of the subject, emphasising throughout the fundamental physical principles, and stressing the connections with other branches of physics. Beginning with a gentle introduction, the book goes on to cover Bernouilli's theorem, compressible flow, potential flow, surface waves, viscosity, vorticity dynamics, thermal convection and instabilities, turbulence, non-Newtonian fluids and the propagation and attenuation of sound in gases. Undergraduate or graduate students in physics or engineering who are taking courses in fluid dynamics will find this book invaluable, but it will also be of great interest to anyone who wants to find out more about this fascinating subject.

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#### Review

"...a good contribution to the fluid mechanics literature...a stimulating and enjoyable description of various important flow phenomena." M.F. Platzer, Applied Mechanics Reviews

"Fluid Dynamics for Physicists is a very accessible text, as well as a very comprehensive one, for anyone wishing to learn or teach basic fluid dynamics." Stanley A. Berger, Physics Today

"The book is well written and comprehensible, and it has attractive and helpful diagrams. There are occasional excellent photographs. The notation is simple and readable....[T]here is much in this book to please and interest any reader." John L. Lumley, American Journal of Physics

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