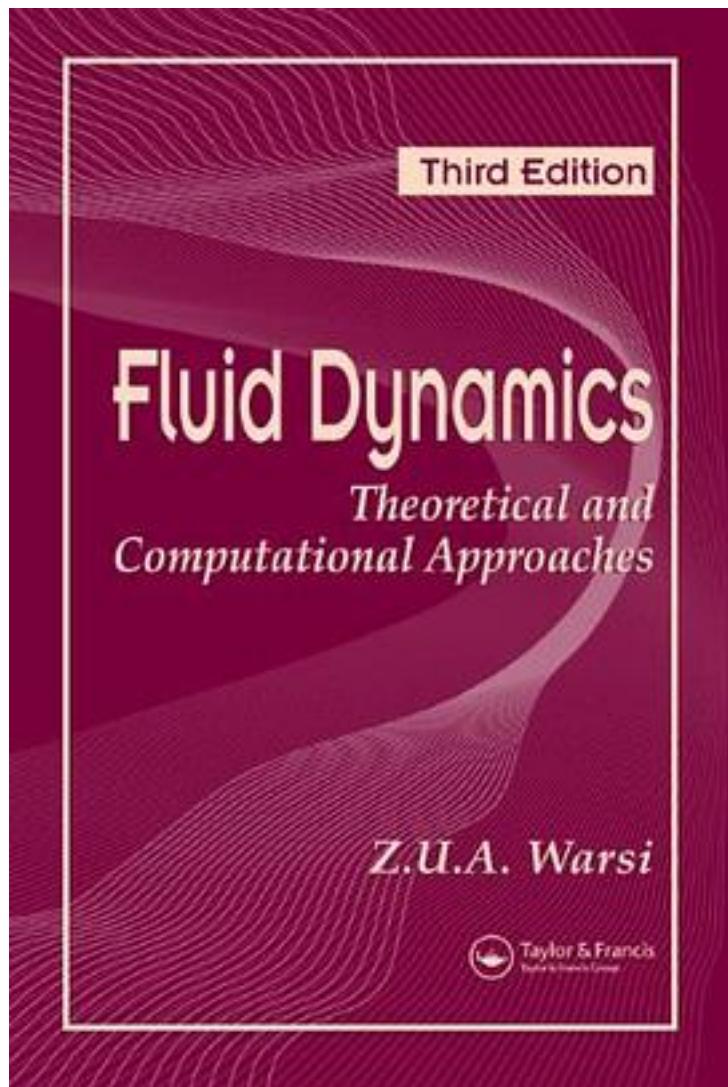


# Fluid Dynamics



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This is the only available book that extends the classical field of fluid dynamics into the realm of scientific computing in a way that is both comprehensive and accessible to the beginner. There are several additions and subject expansions in the Second Edition of Fluid Dynamics, including new Matlab and FORTRAN codes. Solution procedures and algorithms are developed immediately after problem formulations are presented, and numerical methods are introduced on a need-to-know basis and in increasing order of difficulty. Matlab codes are presented and discussed for a broad range of topics; from interfacial shapes in hydrostatics, to vortex dynamics, to Stokes flow, to turbulent flow. A must for practitioners and students in all fields of engineering, computational physics, scientific computing, and applied mathematics, this book can be used as a text in undergraduate and graduate courses in fluid mechanics, aerodynamics, and computational fluid dynamics.

作者介绍:

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