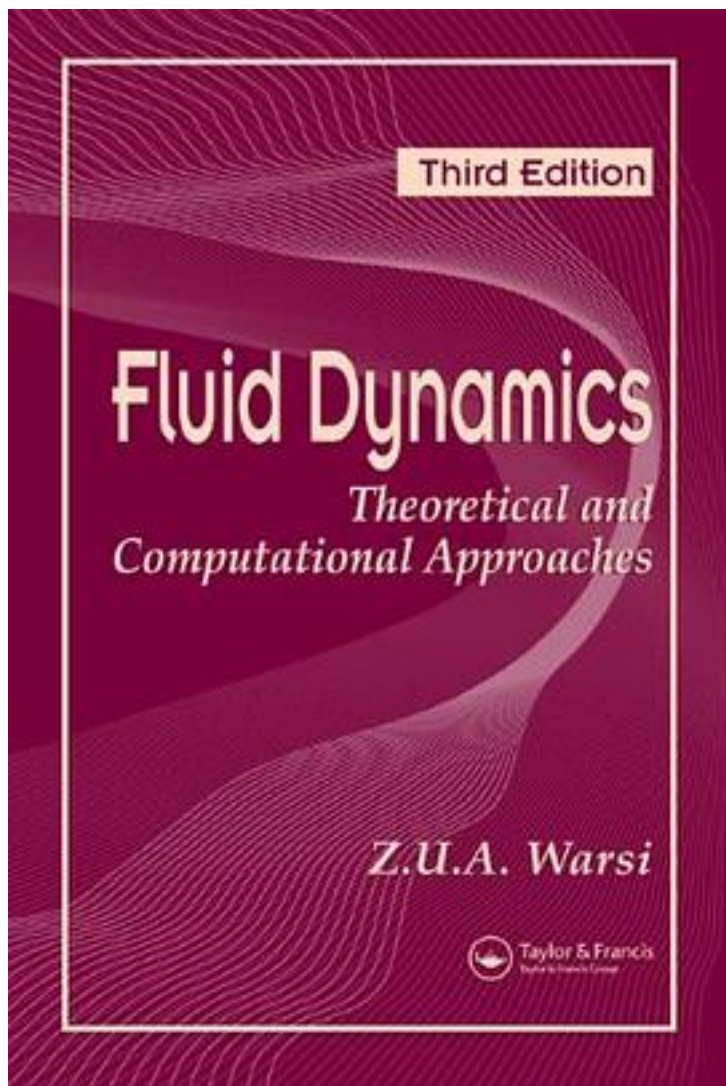


Fluid Dynamics



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著者:Warsi, Z.U.A.

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Many introductions to fluid dynamics offer an illustrative approach that demonstrates some aspects of fluid behavior, but often leave you without the tools necessary to confront new problems. For more than a decade, "Fluid Dynamics: Theoretical and Computational Approaches" has supplied these missing tools with a constructive approach that made the book a bestseller. Now in its third edition, it supplies even more computational skills in addition to a solid foundation in theory. After laying the groundwork in theoretical fluid dynamics, independent of any particular coordinate system in order to allow coordinate transformation of the equations, the author turns to the technique of writing Navier-Stokes and Euler's equations, flow of inviscid fluids, laminar viscous flow, and turbulent flow. He also includes requisite mathematics in several 'Mathematical Expositions' at the end of the book and provides abundant end-of-chapter problems. What's new in the third edition: new section on free surface flow; new section on instability of flows through Chaos and nonlinear dissipative systems; new section on formulation of the large eddy simulation (LES) problem; and, new example problems and exercises that reflect new and important topics of current interest. By integrating a strong theoretical foundation with practical computational tools, "Fluid Dynamics: Theoretical and Computational Approaches, Third Edition" is an indispensable guide to the methods needed to solve new and unfamiliar problems in fluid dynamics.

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