



# Fundamentals of Computational Fluid Dynamics

*Patrick J. Roache*

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# Fundamentals of Computational Fluid Dynamics

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## **Fundamentals of Computational Fluid Dynamics** Patrick J. Roache

The successor to the original pioneering text "Computational Fluid Dynamics" (translated into Russian, Japanese and Chinese, and cited over 2066 times through 1995) this book covers the history and practice of CFD. Covered are both incompressible and compressible flows (including implicit methods for compressible flows and TVD methods), cartesian and body-fitted grid generation, recommendations on testing and information processing, finite difference vs. finite element methods, direct solvers, multigrid methods, high-order accuracy methods in non-orthogonal grids, the flux-based method of characteristics, solution adaptive methods, semidirect methods, contaminant transport in porous media, Richardson Extrapolation and other error estimators, and verification and validation. A reviewer stated the book belongs on the bookshelf of every CFD practitioner.

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