Numerical Computation of Internal and External Flows: The Fundamentals of Computational Fluid Dynamics, Second Edition

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The second edition of this book is a self-contained introduction to computational fluid dynamics (CFD). It covers the fundamentals of the subject and is ideal as a text or a comprehensive reference to CFD theory and practice.

• New approach takes readers seamlessly from first principles to more advanced and applied topics.

• Presents the essential components of a simulation system at a level suitable for those coming into contact with CFD for the first time, and is ideal for those who need a comprehensive refresher on the fundamentals of CFD.

• Enhanced pedagogy features chapter objectives, hands-on practice examples and end of chapter exercises.

• Extended coverage of finite difference, finite volume and finite element methods.

• New chapters include an introduction to grid properties and the use of grids in practice.

• Includes material on 2-D inviscid, potential and Euler flows, 2-D viscous flows and Navier-Stokes flows to enable the reader to develop basic CFD simulations.

• Includes best practice guidelines for applying existing commercial or shareware CFD tools.

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