



Computational Fluid Dynamics: A Practical Approach

By Jiyuan Tu, Guan Heng Yeoh, Chaoqun Liu



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Computational Fluid Dynamics enables engineers to model and predict fluid flow in powerful, visually impressive ways and is one of the core engineering design tools, essential to the study and future work of many engineers. This textbook is designed to explicitly meet the needs engineering students taking a first course in CFD or computer-aided engineering. Fully course matched, with the most extensive and rigorous pedagogy and features of any book in the field, it is certain to be a key text.

- The only course text available specifically designed to give an applications-lead, commercial software oriented approach to understanding and using Computational Fluid Dynamics (CFD).
- Meets the needs of all engineering disciplines that use CFD.
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Editorial Review

About the Author

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Guan Heng Yeoh is an Associate Professor at the School of Mechanical and Manufacturing Engineering, UNSW, and a Senior Research Scientist at ANSTO. He is the founder and Editor of the Journal of Computational Multiphase Flows and the Group Leader of Computational Thermal-Hydraulics of OPAL Research Reactor, ANSTO. He has approximately 180 publications including 7 books, 10 book chapters, 83 journal articles, and 80 conference papers with an H-index 16 and over 800 citations. His research interests are computational fluid dynamics (CFD); numerical heat and mass transfer; turbulence modelling using Reynolds averaging and large eddy simulation; combustion, radiation heat transfer, soot formation and oxidation, and solid pyrolysis in fire engineering; fundamental studies in multiphase flows: free surface, gas-particle, liquid-solid (blood flow and nanoparticles), and gas-liquid (bubbly, slug/cap, churn-turbulent, and subcooled nucleate boiling flows); computational modelling of industrial systems of single-phase and multiphase flows.

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