

## 1: Viscous Fluid Flow

*Frank White's Viscous Fluid Flow, Third Edition continues to be the market leader in this course area. The text is for a senior graduate level elective in Mechanical Engineering, and has a strong professional and international appeal.*

Dozens of new books and monographs on CFD are discussed and listed here for further specialized study. Since the second edition appeared in , more than 10,0 new articles have been published on viscous flows. Clearly, the present book is an introductory textbook, not a comprehensive state-of-the-art treatment of the entire field. The goal is to make the book readable and informative and to introduce graduate students to the field. New in this edition: The seven-chapter format of the book remains the same. Chapter 1 covers the basic properties of fluids and introductory concepts. New material has been added on microflows, slip in liquids, and an improved discussion of boundary conditions for flow. Chapter 2 covers the basic equations of flow, with a bit of condensing of Secs. Section on Dimensional Analysis has been completely rewritten. Chapter 3 treats a variety of laminar-flow solutions, both analytical and numerical, of the Navier-Stokes equation. A number of new exact solutions are discussed and the Stokes paradox is illuminated a bit more. The creeping-flow discussion is updated. Two new interesting engineering CFD applications are given for liquid spheres and a novel micropump. Chapter 4 has some obsolete material deleted, such as the Stratford separation criterion. Numerical solutions are covered, but the traditional integral methods remain. Chapter 5 has dropped the beam-buckling instability analogy and now begins with the classic Kelvin-Helmholtz wind-wave instability. A great wind-shear photo by Brooks Martner has been added. The concept of pseudoresonance has been added. Section on transition processes has been completely rewritten. New results of DNS transition prediction are now discussed. Chapter 6 has been updated with many new references, but the basic outline of turbulent mean-flow prediction remains. Section on modeling has been completely rewritten. The power-law overlap layer controversy is now included. DNS predictions are augmented. Chapter 7 has two new photos of supersonic boundary-layer flow. Isentropic flow analysis is added to increase our understanding of viscous effects. Section on compressible wall-wake laws has been rewritten. The three Appendices are pretty much the same. More fluid property data have been added to App. Appendix C, a Runge-Kutta subroutine, is still useful and clarifies numerical integration. However, more and more readers are changing to spreadsheet calculations. I have tried to incorporate almost all of the reviewer comments, criticisms, corrections, and improvements. The University of Rhode Island continues to humor me, even in retirement.

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*Viscous Fluid Flow / Edition 3 The Second Edition contains information on new technological advances, such as Turbulence Modeling, Modern Analytic Techniques in Approximation Solutions; Computational Fluid Dynamics; and Triple-Deck Theory, along with applications, new problems, and updated references.*

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*Designed for higher level courses in viscous fluid flow, this text presents a comprehensive treatment of the subject. This revision retains the approach and organization for which the first edition has been highly regarded, while bringing the material completely up-to-date.*

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