Fluid Mechanics References

Undergraduate Texts

“Transport Phenomena,” R. B. Bird, W. E. Stewart, E. N. Lightfoot, 2nd Ed., Wiley, 2006.

“Fluid Mechanics,” F. M. White, 6th Ed., McGraw-Hill, 2008.

“A Brief Introduction to Fluid Mechanics,” D. F. Young, B. R. Munson, and T. H. Okiishi, 2nd Ed., John Wiley & Sons, 2001.

“Fluid Mechanics, Fundamentals and Applications,” Y. A. Cengel, J. M. Cimbala, 2nd Ed., McGraw-Hill, 2009.

“Fluid Mechanics for Chemical Engineers,” N. de Nevers, 3rd Ed., McGraw-Hill, 2004.

“Fluid Mechanics for Chemical Engineers with Microfluidics and CFD,” J. O. Wilkes, 2nd Ed., Prentice Hall, 2005.

“An Album of Fluid Motion,” M. Van Dyke, The Parabolic Press, 1982.

“Fluid Mechanics”, R. A. Granger, Dover, 1995

Graduate Texts

“Incompressible Flow,” R. L. Panton, 3rd Ed., Wiley, 2005.

“An Introduction to Fluid Dynamics” G. K. Batchelor, Cambridge, 2000

“Analysis of Transport Phenomena,” W. M. Deen, 2nd Ed., Oxford Univ. Press, 2011

“Advanced Transport Phenomena: Fluid Mechanics and Convective Transport Processes”, L. G. Leal, Cambridge Univ. Press, 2007.

“Hydrodynamics” H. Lamb, Dover, 1997

Selected Topics

“A First Course in Turbulence,” H. Tennekes, J. L. Lumley, The MIT Press, 1972.

“Turbulent Flows,” S. B. Pope, Cambridge University Press, 2000.

“Modern Compressible Flow,” J. D. Anderson, 3rd Ed., McGraw-Hill, 2004.

“Computational Fluid Dynamics, the Basics with applications,” J. D. Anderson Jr., McGraw-Hill, 1995

“Computational Methods for Fluid Dynamics,” J. H. Ferziger, M. Peric, 3rd edition, Springer, 2002

“Boundary Layer Theory,” H. Schlichting, K. Gersten, 8th Ed., Springer, 2000.

“Rheology: Principles, Measurements and Applications,” C.W. Makosko, Wiley-VCH, 1994

“The Structure and Rheology of Complex Fluids,” R. G. Larson, Oxford, 1999.

“Low Reynolds number Hydrodynamics,” J. Happel and H. Brenner, Martinus Nijhoff Publishers, 1983

“Hydrodynamic Stability” P. G. Drazin and W. H. Reid, 2nd Ed. Cambridge, 2004