

Required Course Texts

Çengel, Y.A., Boles, M.A., *Thermodynamics: An Engineering Approach*, Fourth Edition, McGraw-Hill Publications, New York, NY, 2002. **ME220/ME321**

Incropera, F.P., DeWitt, D.P., *Fundamentals of Heat and Mass Transfer*, Fifth Edition, Wiley Publications, Hoboken, NJ, 2002. **ME325**

Wilcox D.C., *Basic Fluid Mechanics*, Second Edition, DCW Industries, La Cañada, California 2003. **ME330**

Anderson, J.D., *Modern Compressible Flow with Historical Perspective*, Third Edition, McGraw-Hill Publications, New York, NY, 2003. **ME530**

Kundu, I.M., Cohen, P.K., *Fluid Mechanics*, Third Edition, Elsevier Academic Press, San Diego, California, 2004. **ME531/ME631**

Bejan, A., *Advanced Engineering Thermodynamics*, Third Edition, Wiley Publications, Hoboken, NJ, 2006. **ME620**

Bejan, A., *Convection Heat Transfer*, Third Edition, Wiley Publications, Hoboken, NJ, 2004. **ME626**

Shah, R.K., Sekulić, D.P., *Fundamentals of Heat Exchanger Design*, First Edition, Wiley Publications, Hoboken, NJ, 2003. **ME626**

Knight, D. D., *Elements of Numerical Methods for Compressible Flows*, Cambridge Aerospace Series, Cambridge University Press, 2006. **ME692**

Additional Useful Texts

Currie I.G., *Fundamental Mechanics of Fluids*, Third Edition, Marcel Dekker Inc., New York, NY, 1993.

White, F.M., *Viscous Fluid Flow*, Second Edition, McGraw-Hill Publications, New York, NY, 1991.

Schlichting H., Gersten K., *Boundary Layer Theory*, 8th Revised and Enlarged Edition, Springer-Verlag Publishing, Berlin Heidelberg, Germany, 2000.

Gad-El-Hak, M., *Flow Control: Passive, Active, and Reactive Flow Management*, Cambridge University Press, 2000.

Drazin, P.G., *Introduction to Hydrodynamic Stability*, First Edition, Cambridge Texts in Applied Mathematics, Cambridge University Press, 2002.

Drazin, P.G., Reid, W.H., *Hydrodynamic Stability*, Second Edition, Cambridge Mathematical Library, Cambridge University Press, 2004.

Chandrasekhar, S., *Hydrodynamic and Hydromagnetic Stability*, International Series of Monographs on Physics (Oxford, England), Dover Publications, New York, NY.

Bertin, J.J., *Aerodynamics for Engineers*, Fourth Edition, McGraw-Hill Publications, New York, NY, 2001.

Abbott, I.H., Von Doenhoff, A.E., *Theory of Wing Sections*, Dover Publications 0-486-60586-8 Mineola, NY, 1959.

Aris, R., *Vectors, Tensors, and the Basic Equations of Fluid Mechanics*, Dover Publications, New York, NY, 1989.

Bird, R.B., Stewart, W.E., Lightfoot, E.N., *Transport Phenomena*, Second Edition, Wiley Publications, New York, NY, 2003.

Versteeg, H.K., Malalasekera, W., *An Introduction to Computational Fluid Dynamics: The Finite Volume Method*, Pearson Education Limited, Harlow, England, 1995.

Anderson, J.D., *Computational Fluid Dynamics: The Basics with Applications*, First Edition, McGraw-Hill Publications, New York, NY, 1995.

Wilcox D.C., *Turbulence Modeling for CFD*, Second Edition, DCW Industries, La Cañada, California 1998.

Leveque, R. J., *Finite Volume Methods for Hyperbolic Problems*, Cambridge Texts in Applied Mathematics, Cambridge University Press, 2003.

Leveque, R. J., *Numerical Methods for Conservation Laws*, Second Edition, Lectures in Mathematics, Birkhäuser Publishing, 1992.