

**MAE 221**  
**Selected References**  
**Textbooks and Monographs**  
**On**  
**Diffusive and Convective Heat and Mass Transport**

- Arpaci, V. S., *Conduction Heat Transfer*, Addison-Wesley, 1966.
- Arpaci, V. S., and Larsen, P. S., *Convection Heat Transfer*, Prentice Hall, 1984.
- Bennett, C. O., and Meyers, J. E., *Momentum, Heat, and Mass Transfer*, McGraw-Hill, 1962.
- Bird, R. B., Stewart, W. E., and Lightfoot, E. N., *Transport Phenomena*, 2<sup>nd</sup> ed., J. Wiley & Sons, 2000.
- Brenner, H. and Edwards, D.A., *Macrotransport Phenomena*, Butterworth-Heinemann, 1993.
- Carslaw, H. S., and Jaeger, J. C., *Conduction of Heat in Solids*, 2<sup>nd</sup> ed., Oxford, 1959.
- Clift, R., Grace, J. R., and Weber, M. E., *Bubbles, Drops, and Particles*, Academic Press, 1978.
- Crank, J., *The Mathematics of Diffusion*, Oxford, 1956.
- Cussler, E. L., *Multicomponent Diffusion*, Elsevier Scientific Publishing Co., 1976.
- Cussler, E. L., *Diffusion and Mass Transfer in Fluid System*, Cambridge, 1984.
- Davies, J. T., *Turbulence Phenomena*, Academic Press, 1972.
- Eckert, E. R. G. and Drake, R. M., *Analysis of Heat and Mass Transfer*, McGraw-Hill, 1971.
- Edwards, D.A., Brenner, H., and Wasan, D.T., *Interfacial Transport and Rheology*, Butterworth-Heinemann, 1991.
- Gebhart, B., *Heat Conduction and Mass Diffusion*, McGraw-Hill, 1993.
- Kays, W. M., and Crawford, M. E., *Convective Heat and Mass Transfer*, McGraw-Hill, 3<sup>rd</sup> ed., 1993.
- Jakob, Max and Hawkins, G. A., *Elements of Heat Transfer*, Wiley, 3<sup>rd</sup> ed., 1957.
- Leal, L. G., *Advanced transport phenomena : fluid mechanics and convective transport processes*, Cambridge University Press, 2007.
- Leal, L. G., *Laminar Flow and Convective Transport Process: Scaling Principles and Asymptotic Analysis*, Butterworth-Heinemann, Boston, 1992.
- Levich, V. G., *Physico-Chemical Hydro-dynamics*, Prentice Hall, 1962.

- Lightfoot, E. N., *Transport Phenomena in Living Systems*, Wiley-Interscience, 1974.
- Newman, John, *Electrochemical Systems*, Prentice Hall, 1973.
- Patankar, S. V. and Spalding D. B., *Heat and Mass Transfer in Boundary Layers*, Intext, 1971.
- Probstein, Ronald F., *Physicochemical Hydrodynamics: An Introduction*, Butterworth-Heinemann, Boston, 1989.
- Rohsenow, W. M., Hartnett, J. P., and Ganic, E. N. (eds.) *Handbook of Heat Transfer Fundamentals*, 2<sup>nd</sup> ed., McGraw-Hill, 1985.
- Rohsenow, W. M., and Choi, H. Y., *Heat, Mass and Momentum Transfer*, Prentice-Hall, 1961.
- Sherwood, T. K., Pigford, R. L., and Wilke, C. R., *Mass Transfer*, McGraw-Hill, 1975.
- Slattery, J. C., *Momentum Energy and Mass Transfer in Continua*, McGraw-Hill, 1972, and Krieger, 1981.
- Spalding, D. B., *Convective Mass Transfer*, Arnold, London, 1963.
- Welty, J. R., Wicks, C. E., and Wilson, R. E., *Fundamentals of Momentum, Heat and Mass Transfer*, 4<sup>th</sup> ed., J. Wiley & Sons, 2001.
- Williams, F. A., *Combustion Theory: The Fundamental Theory of Chemically Reacting Flow Systems*, Benjamin/Cummings Pub. Co., 1985.
- Tzou, D. Y. *Macro- to microscale heat transfer : the lagging behavior*, Taylor & Francis, 1997.