

Module 10: Learning objectives

- The objective of this module is to bring in the concept of mass transfer, which is mass in transit as a result of species concentration difference in a mixture.
- For this module, it is assumed that the student already has a good concept of conduction and convection heat transfer, so that the mass transfer concepts are taught with the help of drawing analogy from heat transfer.
- It is important for the student to understand the context in which the term *mass transfer* is used. The student should understand that the driving potential for mass transfer is concentration gradient, and one can obtain a mass transfer flux due the concentration gradient.
- The student should understand that there are modes of mass transfer that are similar to conduction and convection modes in heat transfer. Equivalent non-dimensional numbers will also be introduced to describe the relative effects of various parameters governing mass transfer.