

Summary

Units and dimensions are used inherently in any engineering analysis and food engineering is no exception as many processing steps (unit operations) are involved. A physical entity, which can be observed and/or measured, is defined qualitatively by a dimension. For example, time, length, area, volume, mass, force, temperature, and energy are all considered dimensions. The quantitative magnitude of a dimension is expressed by a unit; a unit of length may be measured as a meter, centimeter, or millimeter. Law of conservation of mass which includes material balance surrounding an open or closed system is encountered in any food processing industry. These are dealt in this module at a very introductory level.