

SNS College of Technology

(An Autono mous Institution)

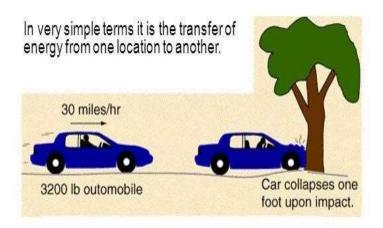
Heat Transfer and Mass Transfer for food products

Unit - 3/ Basic definitions



Radiation

 The most basic definition of radiation is the transfer of energy from on location to another. For example a car hitting a tree.

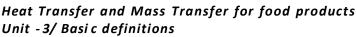


 Radiation is defined as energy in transit as either electromagnetic wave or energetic particles.



SNS College of Technology

(An Autono mous Institution)





Radiation: Basic Definitions

- Radioactive materials are composed of atoms that are unstable. An unstable atom gives off excess energy until it becomes stable. The energy the atom emits is radiation. The process by which an atom changes from an unstable state to a more stable state by emitting radiation is called radioactivity.
- Radiation can be classified as either non-ionizing (low energy) or ionizing (high energy) radiation. Types of non-ionizing radiation are ultraviolet light, visible light, infrared radiation, radio frequency radiation and microwaves. Ionizing radiation is given off by the sun (cosmic rays), radioactive materials, and high energy electronic devices (X-ray machines).