

## UNIT - V

**Boiling and condensation:** Boiling curve – Correlations- Nusselt's theory of film condensation on a vertical plate – Assumptions & correlations of film condensation for different geometries.

## UNIT - VI

**Radiation Heat Transfer:** Radiant heat exchange in grey, non-grey bodies, with transmitting, reflecting and absorbing media, specular surfaces, gas radiation – radiation from flames.

**Mass Transfer:** Concepts of mass transfer – Diffusion & convective mass transfer Analogies – Significance of non-dimensional numbers.

### TEXT BOOKS:

1. Heat Transfer – Necati Ozisik (TMH)
2. Heat and Mass Transfer – O P Single (Macmillan India Ltd)
3. Heat Transfer – P.S. Ghoshdastidar (Oxford Press)
4. Engg. Heat & Mass Transfer- Sarit K. Das (Dhanpat Rai)

### REFERENCE BOOKS:

1. Fundamentals of Heat & Mass Transfer – Incropera Dewitt (Jhon Wiley)
2. Heat Transfer : A basic approach – Yunus Cengel (MH)
3. Heat & Mass Transfer – D.S. Kumar
4. Heat Transfer – P.K. Nag(TMh)
5. Principle of Heat Transfer – Frank Kreith & Mark.Bohn.