

7. Brief list of topics to be covered

- Introduction to heat transfer
- Heat conduction
 - a. One-dimensional conduction in steady state and without internal heat production
 - b. Steady-state one-dimensional conduction with internal heat production
 - c. Thermal transfers in fins
 - d. One-dimensional conduction in transient conditions
- Heat convection
 - a. General equations of convection
 - b. Laminar and turbulent flow
 - c. Catalog of correlations for convection
- Enthalpy transport
- Heat exchangers
- Radiative heat transfer