



QEEE COURSES

INTRODUCTION TO CONVECTION HEAT TRANSFER - HEAT TRANSFER

COURSE CONTENT:

Introduction to Convection, Recapitulation of the Fluid Flow Equations, Boundary layer over a flat plate, Derivation of energy equation and identification of dimensionless terms, Concept of thermal boundary layer and derivation of thermal boundary layer equation, Thermal boundary layer over a flat plate

Internal flow: concept of thermally fully developed flow, solution for thermally fully developed Hagen-Poiseuille flow with different boundary conditions – (a) constant heat flux, (b) constant wall temperature.