MECH6374 - Conductive and Radiative Heat Transfer

**MECH 6374** Conductive and Radiative Heat Transfer (3 semester credit hours) Advanced conduction heat transfer followed by advanced radiation heat transfer. Emphasis on fundamental concepts of conduction/diffusion in heat and mass transfer including solving differential equations related to conduction. Radiation heat transfer covering black and non-black surfaces, shape factors, radiation exchange in gray diffuse enclosures, and solution methods for integro-differential equations. Multi-mode heat transfer combining conduction and radiation is also covered. (3-0) R (2016-02-05 23:43:10)