

MECH 564. THERMAL RADIATION AND SOLAR ENERGY SYSTEMS.

Credits: 3

Offered by: Mechanical Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Fundamentals of thermal radiation. Black body thermal radiation. Radiative properties of real materials. Surface-to-surface radiation exchange. Radiation with conduction and convection. Radiation in absorbing, emitting and scattering media. Numerical methods to solve radiative transfer equation. Solar thermal energy systems. Solar collectors. Concentrating Solar Power (CSP) technology.

- 3-0-6
- Prerequisite: MECH 346, COMP 208

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