

MECH 2210 : Materials

Introduction to materials and selection methods. Topics include structure/properties relationships, mechanical properties of metals, strengthening mechanisms, failure analysis phase/transformation diagrams, thermal processing, metal alloys, corrosion, near net shape processes. Research paper/presentation. Lab experiments include hardness and mechanical test methods, thermal processing with microstructure evaluation. Lecture/laboratory. Prerequisite: PHYS 1010, TECH 1110, TECH 1120. Lab fee.

Credits 0.0-4

Semester Offered

Fall