ME 314 Design of Machine Elements (3-0-0-6)

Principles of mechanical design; Factor of safety, strength, rigidity, fracture, wear, and material considerations; Stress concentrations; Design for fatigue; Limits and fits; Standardization; Design of riveted, bolted, and welded joints; Rigid and flexible couplings; Belt and chain drives; Power screws; Shafts; Keys; Clutches; Brakes; Axles; Springs.

Texts:


References: