Components of forces in space; Equilibrium of a particle and a rigid body. Trusses, and analysis of forces in trusses. Internal forces-normal or axial force, shear force, bending moment, torsional moment; Sign convention for different internal forces; Application of the method of sections to determine internal forces; Relationship between applied load, shear force, and bending moment; Method of superposition to obtain shear force diagram and bending

moment diagram.

The solar sol