



# **Statics and Strength of Materials: The Analytical Application of Strength of Materials to Mechanical, Architectural, and Civil Engineering Design**

*Irving J. Levinson*

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This study provides the basis for a working knowledge of statics and its role in the analysis of the strength of deformable materials, and describes the means to the analytical techniques needed in the design of structural beams, torsion members, columns, machine components.

Beginning with a discussion of the divisions of mechanics - statics & dynamics, the math of mechanics & the conversion of units, it progresses to the subject of force systems, their components, resultants, and equivalence. The discussion is followed by expositions of center of gravity, equilibrium, force analysis of structures, friction, and moments of inertia.

The second major section of the book begins with stress (internal reactions, axial, shear & bearing stresses, stresses on oblique planes, in thin-walled cylindrical vessels, working stress and factor safety), strain (deformation, elasticity, Poisson's ratio, thermal strain, rigidity), and torsion (power transmission, torsion bars, helical springs, shaft couplings.)

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