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MECHANISMS
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Engineering
Design

Volume

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'Air Publications' books on mechanical engineering

STRENGTH OF MATERIALS

8. ELLYSON, H. S.

This book includes a theoretical account of the laws of strength of materials under action of external forces, supported by experimental data, and with the stress and pressure properties of materials, stresses and strains under tension, shear, torsion, bending and compound loading in straight and curved bars.

It is intended to serve as a well-studied text-book for regular and part-time students of technical schools, transport engineering, civil engineering, hydraulic engineering, power engineering and mechanical engineering institutes.

Contents: Tension and Compression, Compressive Cases of Tension and Compression, Shear and Torsion, Bending, Strength of Beams, Deformation of Beams Due to Bending, Fatigue of Elasticity, Shearing in eccentrically Loaded Beams, Results of Shear Compression and Loading, Stability of Elements of Structures, Dynamic Action of Forces