



Strength of Materials: An Introduction to the Analysis of Stress and Strain

John Case, A. H. Chilver

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Strength of Materials: An Introduction to the Analysis of Stress and Strain is 22-chapter introductory text to the problems of stress and strain analysis.

The first chapters explore the fundamental and basic topics on stress and strain, including tension, compression, pin-jointed frames, joints, and connections. The next chapters consider the application of combined simple direct and shearing stresses in practical situations. Other chapters treat topics on plastic, elastic, and strain, as well as problems of thin-walled tubes in bending and torsion. This text also explores the analytical uses of the principle of virtual work, strain energy, and complementary energy. The last chapters review problems of vibrations and dynamic and impact stresses.

This book is directed toward undergraduate engineering students.



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