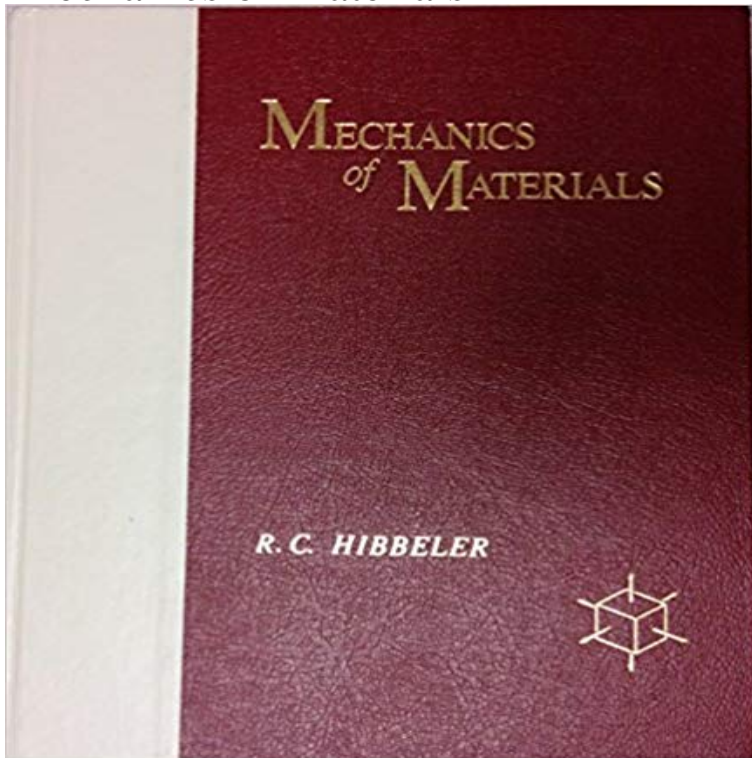


# Mechanics of Materials



This text presents both the theory and applications of mechanics of materials. It examines the physical behaviour of materials under load, then proceeds to model this behaviour to development theory. The contents of each chapter are organized into units that allow instructors greater flexibility in course emphasis. The text features exercises, examples, and free body diagrams. It contains over 1700 homework problems depicting realistic situations students are likely to encounter as engineers, integrating detailed and realistic illustrations to help students understand and solve the problems they will encounter in their careers. It also includes advanced material such as inelastic loadings, stress concentrations, residual stress, stresses in curved and composite beams and energy methods.

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