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Strength of materials is the study of the internal effect of external forces applied to structural member stress strain deformation deflection torsion flexure shear diagram and moment diagram are some of the topics covered by this subject. Strength of materials provides a comprehensive overview of the latest theory of strength of materials. The unified theory presented in this book is developed around three concepts: Hooke's law, equilibrium equations, and compatibility. This fourth edition focuses on the basics and advanced themes in strength of materials. Four new chapters highlighting combined loadings, unsymmetrical bending, and shear centre, fixed beams, and rotating rings, discs, and shells are included. Strength of materials is a peer-reviewed journal focusing on the strength of materials and structures under various mechanical and thermal loading. Strength of materials engineering discipline concerned with the ability of a material to resist mechanical forces when in use. A material's strength in a given application depends on many factors including its resistance to deformation and cracking, and it often depends on the shape of the member being designed. In the mechanics of materials, the strength of a material is its ability to withstand an applied load without failure or plastic deformation. The strength of materials considers the relationship between the external loads applied to a

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