

Structural Analysis 2 By S Ramamrutham

Strength of materials The methods employed to predict the response of a structure under loading and its susceptibility to various failure modes takes into account the properties of the materials such as its yield strength, ultimate strength, Young's modulus, and Poisson's ratio. Ramamrutham, S. In addition, the mechanical element's macroscopic properties (geometric properties) such as its length, width, thickness, boundary constraints and abrupt changes in geometry such as holes are considered. Prentice-Hall, 1991 The strength of materials is determined using various methods of calculating the stresses and strains in structural members, such as beams, columns, and shafts. Strength of Materials. Elastic and inelastic stress analysis. Shames, I. and F. Cozzarelli. H. A. ISBN 0-13-279258-3 81ac5eb4a0

The theory began with the consideration of the behavior of one and two dimensional members of structures, whose states of stress can be approximated as two dimensional, and was then... 81ac5eb4a0

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