



# STRENGTH OF MATERIALS

*A. K. SRIVASTAVA, P. C. GOPE*

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## STRENGTH OF MATERIALS A. K. SRIVASTAVA, P. C. GOPE

The book, now in the Second Edition, presents the fundamental principles of strength of materials and focuses on 3D analysis of stress and strain, double integration method, Macaulay's method, moment area method and method for determining stresses using Winkler–Bach theory. It also covers the analyses of helical springs and leaf spring, and buckling analysis of columns and struts using Euler's and Rankine's theory.

This edition includes four new chapters, namely Simple and Compound Stress, Theory of Failure, Energy Methods and Finite Element Method and its Applications Using ANSYS Software. The chapter on Analysis of Stress and Strain has been thoroughly revised.

The text is primarily designed for the undergraduate students of mechanical engineering, production engineering, and industrial engineering. Besides students, practising engineers would also find the book useful.

### KEY FEATURES :

- A large number of numerical problems
- Open-ended or synthesis-type examples wherever required
- Chapter-end exercises

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