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This text provides undergraduate engineering students with a systematic treatment of both the theory and applications of mechanics of materials. With a strong emphasis on basic concepts and techniques throughout, the text focuses on analytical understanding of the subject by the students. An abundance of worked-out examples, depicting realistic situations encountered in engineering design, are aimed to develop skills for analysis and design of components. To broaden the student ' s capacity for adopting other forms of solving problems, a few typical problems are presented in C programming language at the end of each chapter. The book is primarily suitable for a one-semester course for B.E./B.Tech students and diploma-level students pursuing courses in civil engineering, mechanical engineering and its related branches of engineering profession such as production engineering, industrial engineering, automobile engineering and aeronautical engineering. The book can also be used to advantage by students of electrical engineering where an introductory course on mechanics of materials is prescribed. **KEY FEATURES** Includes numerous clear and easy-to-follow examples to illustrate the application of theory to practical problems. Provides numerous end-of-chapter problems for study and review. Gives summary at the end of each chapter to allow students to recapitulate the topics. Includes C programs with quite a few C graphics to encourage students to build up competencies in computer applications.

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