<<材料力学>>

图书基本信息

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前言

This textbook is intended for use in a first course in mechanics of materials. Programs of instruction relating to the mechanical sciences, such as me-chanical, civil, and aerospace engineering, often require that students takethis course in the second or third year of studies. Because of the fundamental nature of the subject matter, mechanics of materials is often a required course, or an acceptable technical elective in many other curricula. Studentsmust have completed courses in statics of rigid bodies and mathematicsthrough integral calculus as prerequisites to the study To place this book in context for engineering education, the user shouldknow that it of mechanics ofmaterials. is an extensive revision of the fourth edition of Strength of Materials by Pytel and Singer. The contents have been thoroughly modern-ized to reflect the realities and trends in contemporary engineering educa-tion. In addition to eliminating a few of the specialized topics normallytaught in more advanced civil engineering courses, the coverage of funda-mental topics has been expanded. All of the illustrations have been redrawnand improved, with the addition of a second color for clarity and as an aidto understanding complex structures. Many new diagrams aid the visualiza-tion of concepts and improve the comprehension of derivations. Fully 60% of the homework problems are new or modified versions of previous prob-lems. A new feature is the computer problems found at the end of each chapter. Every effort has been made to maintain the conciseness and organiza-tion that were the hallmarks of the earlier editions of Pytel and Singer. In the first eight chapters, emphasis is placed exclusively on elastic analysis throughthe presentation of stress, strain, torsion, bending, and combined loading. An instructor can easily teach these topics within the time constraints of atwo- or three-credit course. The remaining five chapters of the text covermaterial that can be omitted from an introductory course. Because thesemore advanced topics are not interwoven in the early chapters on the basictheory, the core material can efficiently be taught without skipping overtopics within chapters. Once the instructor has covered the material on elas-tic analysis, he or she can freely choose topics from the more advanced laterchapters, as time permits. Organizing the material in this manner has created a significant savings in the number of pages without sacrificing topics that are usually found in an introductory text.

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内容概要

This textbook is intended for use in a first course in mechanics of materials. Programs of instruction relating to the mechanical sciences, such as mechanical, civil, and aerospace engineering, often require that students take this course in the second or third year of studies. Because of the fundamental nature of the subject matter, mechanics of materials is often a required course, or an acceptable technical elective in many other curricula. Students must have completed courses in statics of rigid bodies and mathematics through integral calculus as prerequisites to the study of mechanics of materials.

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