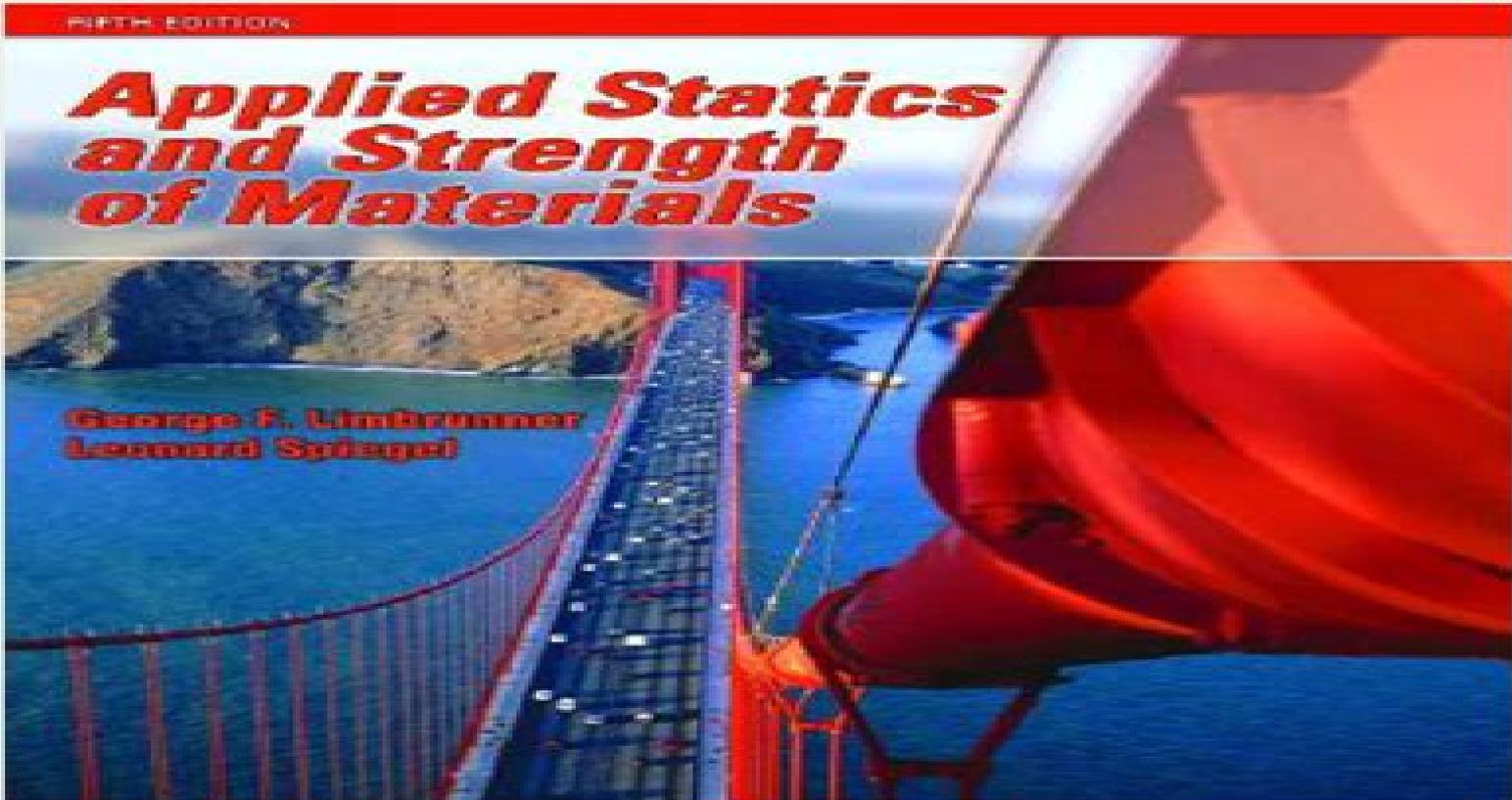


FIFTH EDITION

Applied Statics and Strength of Materials

**George F. Limbrunner
Leonard Spiegel**



Applied Statics Strength Of Materials 5th Edition Solution

Leonard Spiegel, George F. Limbrunner

Applied Statics Strength Of Materials 5th Edition Solution:

Applied Statics and Strength of Materials Leonard Spiegel, George F. Limbrunner, 2004 The fourth edition of Applied Statics and Strength of Materials presents an elementary analytical and practical approach to the principles and physical concepts of statics and strength of materials. It is written at an appropriate mathematics level for engineering technology students using algebra, trigonometry, and analytic geometry. A knowledge of calculus is not required for understanding the text or for working the problems. The book is intended primarily for use in two-year or four-year technology programs in engineering, construction, or architecture. Much of the material has been classroom tested in our Accreditation Board for Engineering and Technology (ABET) accredited engineering technology programs as well as in our American Council for Construction Education (ACCE) accredited construction technology program. The text can also serve as a concise reference guide for undergraduates in a first Engineering Mechanics Statics and or Strength of Materials course in engineering programs. Although written primarily for the technology student, it could also serve as a valuable guide for practicing technologists and technicians as well as for those preparing for state licensing exams for professional registration in engineering, architecture, or construction. The emphasis of the book is on the mastery of basic principles, since it is this mastery that leads to successful solutions of real-life problems. This emphasis is achieved through abundant worked-out examples, a logical and methodical presentation, and a topical selection geared to student needs. The problem-solving method that we emphasize is a consistent, comprehensive, step-by-step approach. The principles and applications, both examples and problems presented, are applicable to many fields of engineering technology, among them civil, mechanical, construction, architectural, industrial, and manufacturing. This fourth edition was prepared with the objective of updating the content where necessary and rearranging and revising some of the material to enhance the teaching aspects of the text. While the primary unit system remains the U.S. Customary System, metric (SI) units continue to be used throughout the text, and the examples and problems reflect a mix of the two measurement systems. The homework problem sets have some additions and some deletions, and some other problems were revised. The book includes the following features: Each chapter is written to introduce more complex material gradually. Problems are furnished at the end of each chapter and are grouped and referenced to a specific section. These are then followed by a group of supplemental problems provided for review purposes. Generally, problems are arranged in order of increasing difficulty. A summary at the end of each chapter presents a thumbnail sketch of the important concepts presented in the chapter. Useful tables of properties of areas and conversion factors for U.S. Customary to SI conversion are printed inside the covers for easy access. Most chapters contain computer problems following the section problems. These problems require students to develop computer programs to solve problems pertinent to the topics of the chapter. Any appropriate computer software may be used. The computer problems are another tool with which to reinforce students' understanding of the concepts under consideration. Answers to selected problems are provided at the back of the

text The primary unit system in this book remains the U S Customary system SI however is fully integrated in both the text and the problems This is a time of transition between unit systems Much of the new construction work in the public sector particularly in the transportation field now uses metric SI measurement full conversion to SI in the technology field in the United States is inevitable and will undoubtedly occur eventually Technicians and technologists must be familiar with both systems To make the book self contained design and analysis aids are furnished in an extensive appendix section Both U S Customary and SI data are presented Calculus based proofs are introduced in the appendices The Instructor s Manual includes complete solutions for all the end of chapter problems in the text There is sufficient material in this book for two semesters of work in statics and strength of materials In addition by selecting certain chapters topics and problems the instructor can adapt the book to other situations such as separate courses in statics or mechanics and strength of materials Thanks are extended to many colleagues associates and students who with their enthusiastic encouragement insightful comments and constructive criticisms have helped with the input for this edition A special word of thanks goes to James F Limbrunner P E for his contributions to the text and help with proofreading and problem sets Also appreciation is extended to the reviewers for this edition for their help and constructive suggestions Elliot Colchamiro New York City Technical College and Dorey Diab Stark State College And last my thanks to Jane Limbrunner for her support patience and understanding during the term of this project George F Limbrunner

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