

Engineering Mechanics Statics 1e Plesha Gray Costanzo 4265

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plesha gray and costanzos engineering mechanics statics dynamics presents the fundamental concepts clearly in a modern context using applications and pedagogical devices that connect with

today's students

problem solving is implicit in the very nature of all science and virtually all scientists are hired, retained, and rewarded for solving problems although the need for skilled problem solvers has never been greater. There is a growing disconnect between the need for problem solvers and the educational capacity to prepare them. Learning to solve complex scientific problems is an immensely useful read offering the insights of cognitive scientists, engineers, and science educators who explain methods for helping students solve the complexities of everyday scientific problems. Important features of this volume include discussions on how problems are represented by the problem solvers and how perception, attention, memory, and various forms of reasoning impact the management of information and the search for solutions. How academics have applied lessons from cognitive science to better prepare students to solve complex scientific problems, gender issues in science and engineering classrooms, and questions to guide future problem solving research. The innovative methods explored in this practical volume will be of significant value to science and engineering educators and researchers as well as to instructional designers.

Plesha Gray Costanzo's *Engineering Mechanics 2e* is the problem solver's approach for tomorrow's engineers based upon a great deal of classroom teaching experience. Plesha Gray Costanzo provides a visually appealing learning framework to your students. The look of the presentation is modern like the other books the students have experienced and the presentation itself is relevant with examples and exercises drawn from the world around us, not the world of sixty years ago. Examples are broken down in a consistent manner that promotes students' ability to setup a problem and easily solve problems of incrementally harder difficulty. *Engineering Mechanics* is also accompanied by McGraw Hill's Connect, which allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the students' work. Most problems in Connect are randomized to prevent sharing of answers and most also have a multi-step solution which helps move the students' learning along if they experience difficulty. *Engineering Mechanics 2e* by Plesha Gray Costanzo: a new dawn for statics and dynamics.

Plesha Gray and Costanzo's *Engineering Mechanics: Statics and Dynamics* presents the fundamental concepts clearly in a modern context using applications and pedagogical devices that connect with today's students. The text features a problem solving methodology that is consistently used throughout all example problems. This methodology helps students lay out the steps necessary to correct problem formulation and explains the steps needed to arrive at correct and realistic solutions. Once students have fully mastered the basic concepts, they are taught appropriate use of modern computational tools where applicable, further reinforcing the text's modern emphasis. The authors have brought engineering design considerations into selected problems where appropriate. This sensitizes students to the fact that engineering problems do not have a single answer and many different routes lead to a correct solution. The first new mainstream text in engineering mechanics in nearly twenty years, *Plesha Gray and Costanzo's Engineering Mechanics: Statics and Dynamics* will help your students learn this important material efficiently and effectively.

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