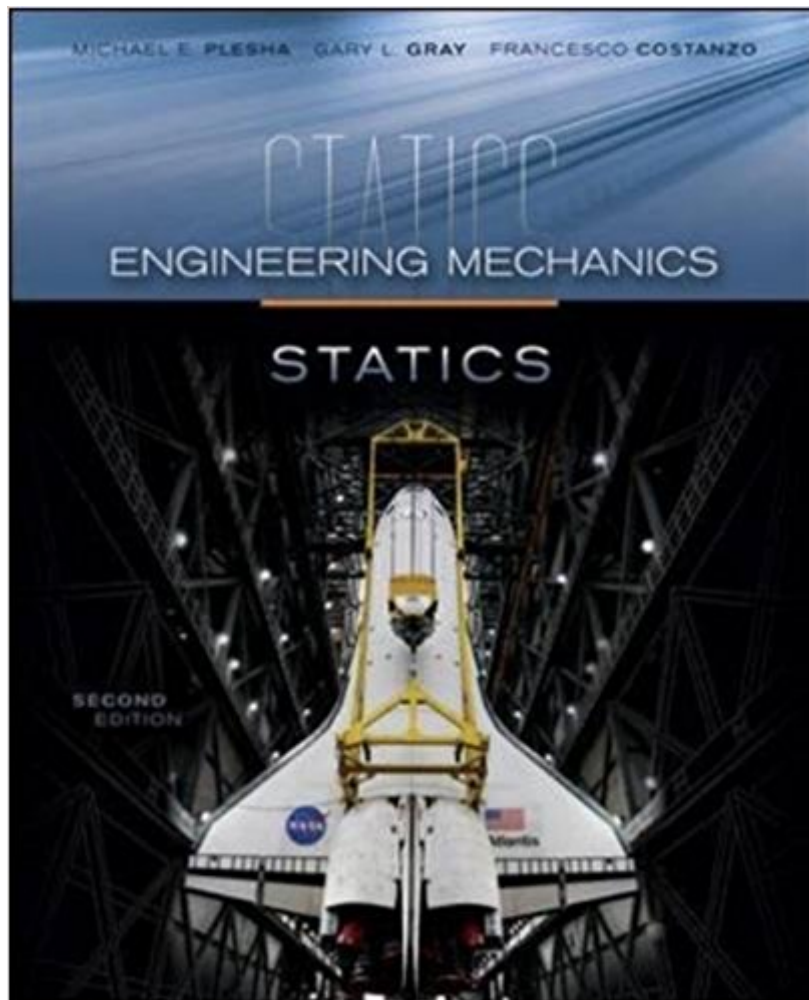




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Engineering Mechanics: Statics (Mechanical Engineering)



Synopsis

Note: Book does not include Access codes Plesha, Gray, and Costanzo's Engineering Mechanics: Statics and Dynamics, 2nd edition is the Problem Solver's Approach for Tomorrow's Engineers. Based upon a great deal of classroom teaching experience, Plesha, Gray, and Costanzo provide a visually appealing, "step-by-step" learning framework. The presentation is modern, up-to-date and student centered, and the introduction of topics and techniques is relevant, with examples and exercises drawn from the world around us and emerging technologies. Every example problem is broken down in a consistent "step-by-step" manner that emphasises a "Problem Solver's Approach" which builds from chapter to chapter and moves from easily solved problems to progressively more difficult ones. McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty. Engineering Mechanics: Statics and Dynamics, 2nd edition by Plesha, Gray, and Costanzo - a new dawn for the teaching and learning of Statics and Dynamics.

Book Information

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Customer Reviews

Francesco Costanzo is an Associate Professor of Engineering Science and Mechanics in the Engineering Science and Mechanics Department at Penn State. He received the Laurea in Ingegneria Aeronautica from the Politecnico di Milano, Milan, Italy. After coming to the U.S. as a Fulbright scholar he received his Ph.D. in aerospace engineering from Texas A&M University. His primary research interest is the mathematical and numerical modeling of material behavior. He has focused on the theoretical and numerical characterization of dynamic fracture in materials subject to thermo-mechanical loading via the use of cohesive zone models and various finite element methods, including space-time formulations. His research has also focused on the development of multi-scale methods for predicting continuum-level material properties from molecular calculations, including the development of molecular dynamics methods for the determination of the stress-strain response of nonlinear elastic systems. In addition to scientific research, he has contributed to various projects for the advancement of mechanics education under the sponsorship of several organizations, including the National Science Foundation. For his contributions, he has received various awards, including the 1998 and the 2003 GE Learning Excellence Awards, and the 1999 ASEE Outstanding New Mechanics Educator Award. In addition to teaching dynamics, he also teaches statics, mechanics of materials, continuum mechanics, and mathematical theory of elasticity.

Michael E. Plesha is a Professor of Engineering Mechanics in the Department of Engineering Physics at the University of Wisconsin-Madison. Professor Plesha received his B.S. from the University of Illinois-Chicago in structural engineering and materials, and his M.S. and Ph.D. from Northwestern University in structural engineering and applied mechanics. His primary research areas are computational mechanics, focusing on the development of finite element and discrete element methods for solving static and dynamic nonlinear problems, and the development of constitutive models for characterizing behavior of materials. Much of his work focuses on problems featuring contact, friction, and material interfaces. Applications include nanotribology, high temperature rheology of ceramic composite materials, modeling geomaterials including rock and soil, penetration mechanics, and modeling crack growth in structures. He is co-author of the book *Concepts and Applications of Finite Element Analysis* (with R. D. Cook, D. S. Malkus, and R. J. Witt). He teaches courses in statics, basic and advanced mechanics of materials, mechanical vibrations, and finite element methods.

Gary L. Gray is an Associate Professor of Engineering Science and Mechanics in the Department of Engineering Science and Mechanics at Penn State in University Park, PA. He received a B.S. in Mechanical Engineering (cum laude) from Washington University in St. Louis, MO, an S.M. in Engineering Science from Harvard University, and M.S. and

Ph.D. degrees in Engineering Mechanics from the University of Wisconsin-Madison. His primary research interests are in dynamical systems, dynamics of mechanical systems, mechanics education, and multi-scale methods for predicting continuum-level properties of materials from molecular calculations. For his contributions to mechanics education, he has been awarded the Outstanding and Premier Teaching Awards from the Penn State Engineering Society, the Outstanding New Mechanics Educator Award from the American Society for Engineering Education, the Learning Excellence Award from General Electric, and the Collaborative and Curricular Innovations Special Recognition Award from the Provost of Penn State. In addition to dynamics, he also teaches mechanics of materials, mechanical vibrations, numerical methods, advanced dynamics, and engineering mathematics.

There are a lot of equation derivations and practice problems. Any engineering student knows how that goes. What I like particularly about this book is that at the end of each section is two or three practice problems worked out with full detail and explanation, to give the reader a typical example.

Book was in great condition other than tape needed to hold hard cover to rest of book

It was the correct book and edition, and it was in great condition!

Book needed for EMCH 211 at Penn State. Looks well put together.

This is the second time I have ordered this textbook and the second time that I have received the wrong edition. I specifically ordered the book by the ISBN and the wrong book arrived. Twice. This is for use by an engineering university student and the correct book is required. Very frustrating.

Easy to use, easy to return.

I purchased this book and expected it to come with the McGraw Hill Connect because the description mentions the McGraw Hill Connect. One week later, I received and opened the package to find out there was no online access code...VERY MISLEADING!!!

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