



Mechanics of Materials

By Andrew Pytel, Jaan Kiusalaas

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The second edition of MECHANICS OF MATERIALS by Pytel and Kiusalaas is a concise examination of the fundamentals of Mechanics of Materials. The book maintains the hallmark organization of the previous edition as well as the time-tested problem solving methodology, which incorporates outlines of procedures and numerous sample problems to help ease students through the transition from theory to problem analysis. Emphasis is placed on giving students the introduction to the field that they need along with the problem-solving skills that will help them in their subsequent studies. This is demonstrated in the text by the presentation of fundamental principles before the introduction of advanced/special topics.

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Editorial Review

Review

The presentation is done very well and topic relations and dependence are kept in mind.

There is more in the book than can possibly be taught in a single course. It is good to have this extra material because students who are interested can study it on their own. It shows what comes next in more advanced studies.

About the Author

Dr. Andrew Pytel received his Bachelor of Science Degree in Electrical Engineering, his M.S. in Engineering Mechanics, and his Ph.D in Engineering Mechanics from The Pennsylvania State University. In addition to his career at Penn State University, Dr. Pytel served as an Assistant Professor at the Rochester Institute of Technology in the Department of Mechanical Engineering and as an Assistant Professor at Northeastern University in Boston. He became a full Professor at The Penn State University in 1984 and a Professor Emeritus in 1995. Throughout his career, Dr. Pytel has taught numerous courses and received many honors and awards. He has participated extensively with the American Society for Engineering Education and was named a Fellow of the ASEE in 2008.

Dr. Jaan Kiusalaas is Professor Emeritus, Engineering Science and Mechanics from The Pennsylvania State University. Dr. Kiusalaas received his Honors BS in Civil Engineering from the University of Adelaide, Australia, his M.S. in Civil Engineering and his Ph.D. in Engineering Mechanics from Northwestern University. Dr. Kiusalaas has been a professor at The Pennsylvania State University since 1963. He is also a Senior Postdoctoral Fellow of NASA's Marshall Space Flight Centre. Dr. Kiusalaas' teaching experience includes addressing topics as Numerical Methods (including finite element and boundary element methods) and Engineering Mechanics, ranging from introductory courses (statics and dynamics) to graduate level courses.

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