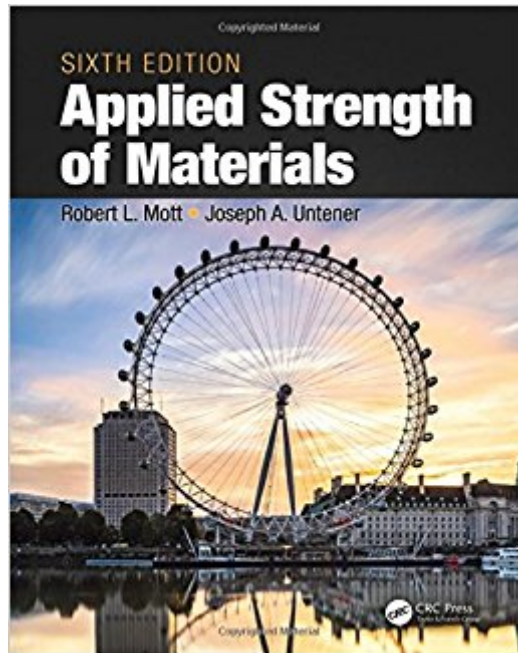




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Applied Strength Of Materials, Sixth Edition



Synopsis

Designed for a first course in strength of materials, Applied Strength of Materials has long been the bestseller for Engineering Technology programs because of its comprehensive coverage, and its emphasis on sound fundamentals, applications, and problem-solving techniques. The combination of clear and consistent problem-solving techniques, numerous end-of-chapter problems, and the integration of both analysis and design approaches to strength of materials principles prepares students for subsequent courses and professional practice. The fully updated Sixth Edition. Built around an educational philosophy that stresses active learning, consistent reinforcement of key concepts, and a strong visual component, Applied Strength of Materials, Sixth Edition continues to offer the readers the most thorough and understandable approach to mechanics of materials.

Book Information

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"This is a well-written textbook, with a good balance of theoretical background, industry relevant examples and problems for the students to solve. Equally valuable are the appendices containing extensive listings of properties of materials and structural shapes." • Aurelian Simionescu, Texas A&M University, USA "All versions of Mott's strengths text provide a very solid base for mechanical design and the corresponding analysis needed for its verification. This base continues in the 6th edition. The simple conceptual activities are an outstanding feature of this edition. They truly connect students to strengths of materials and its daily application in a way that benefits most people, not just those who have machine shop or woodworking experience. Establishing this

connection greatly improves the success of our engineering technology students, leveling the playing field for those who have little background with making and understanding real physical products and piquing the interest of all. The activities are straightforward, low-cost, and set up for completion by small teams – perfect for active learning classrooms and feasible as homework assignments for distance education students. The experimental and modeling content of the 6th edition is sufficient to make students aware of these areas of the field without distracting from the core instruction in design and analysis. Lab-based courses benefit from linking to the design; students in lecture-only courses gain insight into how designs are validated. The extent of the homework problems and their inclusion of everyday items like swing sets really enhances the Mott and Untener text." • Nancy L. Denton, Purdue University, USA

Robert L. Mott is professor emeritus of engineering technology at the University of Dayton. He is a member of ASEE, SME, and ASME. He is a Fellow of ASEE and a recipient of the ASEE James H. McGraw Award, Frederick J. Berger Award, and the Archie Higdon Distinguished Educator Award (From Applied Mechanics Division). He is a recipient of the SME Education Award. He holds the Bachelor of Mechanical Engineering degree from General Motors Institute (now Kettering University) and the Master of Science in Mechanical Engineering from Purdue University. His industry experience includes General Motors Corporation, consulting for several companies, and serving as an expert witness on numerous legal cases. He is the author of three textbooks: Applied Fluid Mechanics 7th ed. (co-authored with Joseph A. Untener) and Machine Elements in Mechanical Design 6th ed., published by Pearson/Prentice-Hall; Applied Strength of Materials 6th ed. (co-authored with Joseph A. Untener) with CRC Press. Joseph A. Untener, P.E. is a professor of engineering technology at the University of Dayton. He is a member of ASEE, SME, and ASME. He holds the Bachelor of Mechanical Engineering degree from General Motors Institute (now Kettering University) and the Master of Science in Industrial Administration from Purdue University. He has worked on the design and implementation of manufacturing equipment at General Motors, and served as an engineering consultant for many other companies. He teaches courses in Mechanical Engineering Technology at UD. He has co-authored two textbooks with Robert L. Mott: Applied Fluid Mechanics 7th ed. published by Pearson/Prentice-Hall, and Applied Strength of Materials 6th ed. with CRC Press.

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