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Applied Statics and Strength of Materials, 6th Edition. George F. Limbrunner is an alumnus of Rensselaer Polytechnic Institute and Professor Emeritus of Civil Engineering Technology at Hudson Valley Community College where he taught structural engineering for 38 years.. Craig D'Allaird is a licensed professional engineer in the state of New York with 15 years or experience in structural ...

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APPLIED STATICS AND STRENGTH OF MATERIALS, 2nd Edition provides engineering and construction technology readers with a strategy for successful learning of basic structural behavior and design. The book is written at a fundamental level while providing robust detail on problem-solving methods on a variety of recognizable structures, systems, and machines. Topics covered include easy-to- understand discussion on equilibrium, trusses, frames, centroids, moment of inertia, direct stress, combined stress, beam mechanics, and much more. The book also includes extensive coverage on the design of beams, columns, and connections which include the latest design specifications using steel, concrete, and wood. More than 175 fully worked examples and 500 exercise problems offer thorough and comprehensive reinforcement of the material using recognizable structural and mechanical elements which connect the readers to the real-world.

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This textbook provides students with a foundation in the general procedures and principles of the mechanical design process. It introduces students to solving force systems, selecting components and determining resultants in equilibrium. Strength failures of various materials will also be presented. In addition, the author has includes information about how to -- analyze and solve problems involving force systems, components, resultants and equilibrium; determine center of gravity and centroids of members and objects; identify moment of inertia of objects; analyze simple structures under linear stress and strain; investigate the effects of torsion on shafts and springs; find the load, stress and deflection on beams; and analyze structures subjected to combined loading.

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.

This practical introduction includes all of the coverage of strength topics contained in this larger text. It's a step-by-step presentation that is so well suited to undergraduate engineering technology students. Coverage includes: belt friction, stress concentrations, Mohr's circle of stress, moment-area theorems, centroids by integration, and more.