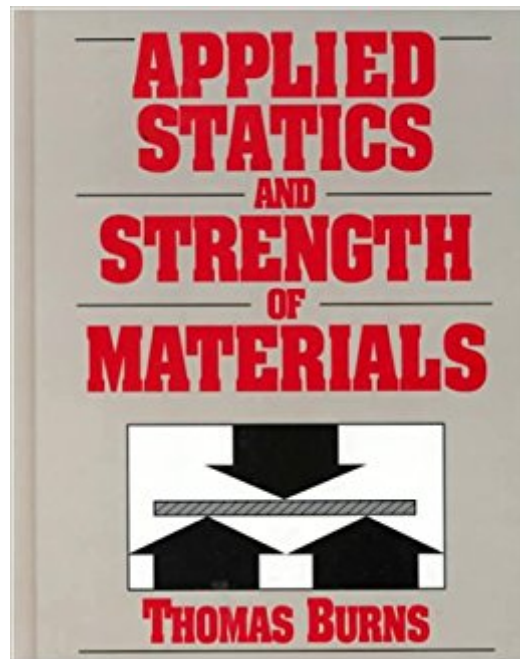




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Applied Statics And Strength Of Materials



Synopsis

The book is written at a fundamental level for students of engineering and construction technology programs and provides these students with the foundation for successful completion of future design courses. Equilibrium, trusses, frames, centroids and moment of inertia and their relation to the concepts of vectors and equilibrium are covered in detail. All topics within the topics of stress and strain, strength of materials, beam, column and connection design are integrated within the text. The latest guidelines for steel, concrete and timber are used in covering design.

Book Information

Hardcover: 628 pages

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Customer Reviews

1: Introduction to Statics and Strength of Materials. 2: Forces and Force Systems. 3: Equilibrium of Force Systems. 4: Truss and Frame Analysis. 5: Friction. 6: Center of Gravity and Centroids. 7: Moment of Inertia. 8: Stress and Strain. 9: Further Applications of Stress and Strain. 10: Torsion. 11: Beams: Shear Forces and Bending Moments. 12: Beams: Bending, Shear, and Deflection. 13: Combined Stresses. 14: Beam Design Basics. 15: Column Design Basics. 16: Connection Design Basics. Appendix A: Steel Section Tables. Appendix B: Typical Properties for Selected Materials and Radii of Gyration. Appendix C: Beam Loading Tables. Appendix D: Timber Section Tables and Design Values. Appendix E: Integration Techniques for Centroids, Moment of Inertia, and Bending Moments. --This text refers to an alternate Hardcover edition.

Thomas Burns is the current chairman of the Civil Engineering Technology Department at Cincinnati

State and has taught the Structural sequence of courses to construction management and architectural technology students for 24 years. Over this time he has been awarded teaching excellence awards at both Cincinnati State as well as the University of Cincinnati. In addition, Mr. Burns has served in many roles with the American Council for Construction Education (ACCE) over the last dozen years. These duties include being an educator trustee of the ACCE board, chairman of the student learning outcomes task force, vice chair of the accreditation committee and an active member of the standards committee. Mr. Burns is a licensed engineer and still pursues a variety of structural consulting activities. Dr. Burns is a licensed professional engineer and has significant professional leadership at the national level as an Educator Trustee of the American Council for Construction Education (ACCE). He currently serves as vice-chair of both the ACCE accreditation committee and student learning outcomes task force. He has served as an external reviewer for other construction programs in Ohio, Texas, Florida, and New York and has published three textbooks with a fourth, Applied Statics & Strength of Materials (2e), due out in January 2009. Dr. Burns has undergraduate and graduate degrees in Civil Engineering and earned his Ph.D. from Indiana State, specializing in Construction Management.

Great

needed for school

Decent algebra based textbook on statics. If you are looking for the reasoning behind the math go look elsewhere but if you just need a step by step on how to do statics then this is the book for you

Product is in great shape and very helpful!!

I purchased Applied Statics and Strength of Materials mainly to refresh my memory. It is educational and clearly explained concepts.

Difficult subject that needed more examples and diagrams. The bonus s/w on the CD was rather rudimentary but offers some simple functions.

Not the best text, however the chapters are well outlined and with class instructions it is very useful tool. It was the required text for class so no other choice.

I like the product, I have had the course before and wanted a book to refresh my skills. This work is a very fine work, easy to follow, good examples, just what I needed to brush up on my skills. Good job!

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