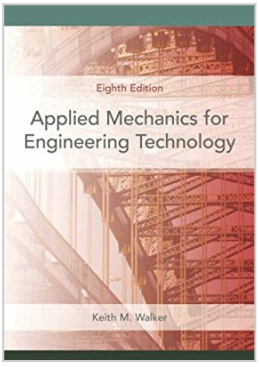

Applied Mechanics for Engineering Technology (8th Edition)

By Keith M. Walker

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Featuring a non-calculus approach, this introduction to applied mechanics book combines a straightforward, readable foundation in underlying physics principles with a consistent method of problem solving. It presents the physics principles in small elementary steps; keeps the mathematics at a reasonable level; provides an abundance of worked examples; and features problems that are as practical as possible *without* becoming too involved with many extraneous details. This edition features 7% more problems, an enhanced layout and design and a logical, disciplined approach that gives readers a sound background in core statics and dynamics competencies. The volume addresses forces, vectors, and resultants, moments and couples, equilibrium, structures and members, three-dimensional equilibrium, friction, centroids and center of gravity, moment of inertia, kinematics, kinetics, work, energy, and power and impulse and momentum. For those interested in an introduction to applied mechanics.

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Applied Mechanics for Engineering Technology (8th Edition) By Keith M. Walker Bibliography

- Sales Rank: #739153 in Books
- Brand: Walker
- Published on: 2007-08-31
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x 1.50" w x 7.50" l, 2.23 pounds
- Binding: Hardcover
- 592 pages

Editorial Review

From the Publisher
Combines theory with practical applications within a direct, readable presentation. Theory is delivered with a few clear statements as each subject is developed through practical examples organized in a systematic format.

From the Back Cover

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Applied mechanics is more than the teaching of physics principles. It is an important instrument in developing a method of stripping a problem to essentials and solving it in a logical, organized manner. This method of working can be applied to many other areas. This book, therefore, shows a consistent pattern of problem solving. The physics principles are presented in small elementary steps, the mathematics is kept at a reasonable level, and the problems are as practical as possible without becoming too involved with many extraneous details.

To accommodate the transition years between the U.S. Customary system and the SI metric system, each chapter is a random mix of both systems but predominantly St metric. There are more than 175 worked examples and 960 graded problems, of which nearly two thirds are in the SI metric system.

I would now like to address the student directly. You will no doubt discover problems that defy solution, no matter how well you understand all previous examples or problems. At the end of each chapter there is a list of hints for problem solving. It is not necessarily a summary of the chapter material but is rather similar to a serviceman's troubleshooting list. It is a list of the common areas where students have had difficulty or made errors in the past. Hopefully, by using this checklist to go back over your diagrams and calculations, you will find self-study and problem solving, not only easier but certainly less frustrating.

I would also like to acknowledge the reviewers of this text: George Tebbetts—University of Arkansas at Little Rock and Alan D. Chamberlain—Point Park College.

Keith M. Walker

Users Review

From reader reviews:

Vera Velez:

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