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Statics

Learning from Engineering Examples

- ▶ Stresses representation of physical reality ways that allow students to solve problems and obtain meaningful results
- ▶ Emphasizes identification of important features of the structure that should be included in a model and which features may be omitted
- ▶ Facilitates students' understanding and mastery of the "flow of thinking" practiced by professional engineers

This textbook introduces and explains the basic concepts on which statics is based utilizing real engineering examples. The authors emphasize the learning process by showing a real problem, analyzing it, simplifying it, and developing a way to solve it. This feature teaches students intuitive thinking in solving real engineering problems using the fundamentals of Newton's laws.

This book also:

- Stresses representation of physical reality in ways that allow students to solve problems and obtain meaningful results
- Emphasizes identification of important features of the structure that should be included in a model and which features may be omitted
- Facilitates students' understanding and mastery of the "flow of thinking" practiced by professional engineers



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