



Introduction to Mechanics of Materials

By William F. Riley, Loren W. Zachary

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A concise, updated successor to the successful Mechanics of Materials by Higdon, Olsen, Stiles, Weese, and Riley. This text is designed for a first course in mechanics of deformable bodies; it presents the concepts and skills that form the foundation of all structural analysis and machine design. Presentation relies on free-body diagrams, application of the equations of equilibrium, visualization and use of the geometry of the deformed body, and use of the relations between stresses and strains for the material being used. Stress transformation is covered later in this book than in the Higdon text. Includes many illustrative examples and homework problems. Also contains computer problems and an appendix on computer methods.

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Introduction to Mechanics of Materials By William F. Riley, Loren W. Zachary Bibliography

- Sales Rank: #2581247 in Books
- Published on: 1989-01
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.49" h x 1.79" w x 7.81" l, 3.40 pounds
- Binding: Paperback
- 768 pages

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