



Engineering Economy (15th Edition)

By William G. Sullivan, Elin M. Wicks, C. Patrick Koelling

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Editorial Review

From the Back Cover

Engineering Economy Fifteenth Edition

William G. Sullivan Elin M. Wicks C. Patrick Koelling

A succinct job description for an engineer consists of two words: *problem solver*. Broadly speaking, engineers use knowledge to find new ways of doing things economically. Engineering design solutions do not exist in a vacuum but within the context of a business opportunity. Given that every problem has multiple solutions, the issue is: How does one rationally select the design with the most favorable economic result? The answer to this question can also be put forth in two words: *engineering economy*. Engineering economy provides a systematic framework for evaluating the economic aspects of competing design solutions. Just as engineers model the stress on a support column, or the thermodynamic response of a steam turbine, they must also model the economic impact of their recommendations. Engineering economy is the subject of this textbook.

Highlights of *Engineering Economy*, Fifteenth Edition:

1. Numerous green engineering examples and problems are new to this edition. Many incorporate energy conservation in commonly experienced situations. These elements pertain to engineering economy problems involving energy conservation, materials substitution, recycling, and other green situations. These green elements will be denoted with a vertical green rule and icon.
2. Tightly integrated hybrid media using videos of selected problems and examples are featured to enhance problem solving and understanding. These videos are keyed to material in the text with an icon, showing that this resource can be accessed at www.pearsonhighered.com/sullivan. These icon-designated instances are intended to reinforce the learning of engineering economy through analogy with the marked problems and examples, and students are encouraged to take advantage of their availability.
3. Over 200 new end-of-chapter problems have been added to this edition. Many are personal interest and current events types of problems.
4. PowerPoint visual aids for instructors have been expanded and enhanced.
5. A few chapters have been abbreviated to promote more concise and readable topical coverage.
6. Many new spreadsheet models of engineering economy problems have been added to the fifteenth edition.
7. Answers to selected end-of-chapter problems are included in Appendix G.
8. We continue to support TestGen, which algorithmically generates a multitude of test questions (and answers). This useful resource for instructors may be accessed at www.pearsonhighered.com/sullivan.
9. Student resources include Pearson e-Text, a complete online version of the book that includes highlighting, note taking, and search capabilities and access to the Video Solutions files which accompany this text, as well as additional student study resources. All end-of-chapter problems with an icon indicate the availability of some form of Video Solutions.

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