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Introduction to Engineering Economics

1. Engineering Economics is closely aligned with Conventional Micro-Economics. 2. Engineering Economics is devoted to the problem solving and decision making function at the operational level. 3. Engineering Economics can lead to optimum solutions in conditions in which a solution satisfies tactical objectives at the expense of strategic effectiveness. 4. This pioneering text provides a holistic approach to decisionmaking in transportation project development and evaluation, and modern methods of depreciation, income taxes, economic analysis. It features more current economy examples, a new subset of economics ...

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Introduction to Engineering Economics

For Engineering Economics courses, found in departments of Industrial, Civil, Mechanical, and Electrical Engineering. New ... of Engineering Economics offers a concise, but in-depth coverage of all fundamental topics of Engineering Economics. 

Introduction to Engineering Economics

This unified examination of economic analysis principles from a cash flow viewpoint, provides a systematic, 7-step ... and modern methods of depreciation, income taxes, economic analysis. It features more current economy examples, a new subset of economics ...

Introduction to Engineering Economics

Some examples of engineering economics problems range from value analysis to economic studies. Each of these is relevant in different situations, and most often used by engineers or project managers. For example, economic analysis helps a company not only determine the difference between fixed and incremental costs of certain operations, but also calculates that cost, depending upon a number of variables. 

Introduction to Engineering Economics


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Engineering has changed dramatically in the last century. With modern computing systems, instantaneous communication, elimination of leaky management, increased complexity, and extremely efficient supply chains, all have dramatically affected the responsibilities of engineers at all levels. The future will require cost-effective systems that are more secure, interconnected, software-centric, and complex. Employees at all levels need to be able to develop accurate cost estimates based upon defensible cost analysis. It is under this backdrop that this book is being written. By presenting the methods, processes, and tools needed to conduct cost analysis, estimation, and management of complex systems, this textbook is the next step beyond basic engineering economics. Features: Focusing on systems life cycle costing includes materials beyond basic engineering economics, such as simulation-based costing Provides cost estimating, analysis, and management from a total ownership cost perspective Offers numerous real-life examples Provides Excel-based textbook/problems Offers PowerPoint slides, Solutions Manual, and author website with downloadable Excel solutions, etc.

This textbook provides a fundamental overview of the application of engineering economic principles to transportation/infrastructure investments. Basic theory is presented and illustrated with examples specific to the transportation field. It also reviews the history of transportation finance, as well as current methods for funding transportation investments in the U.S. Future problems and potential solutions are also discussed and illustrated.

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