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This unified examination of economic analysis principles from a cash flow viewpoint, provides a systematic, 7-step approach for performing a comparison of investment alternatives. It offers comprehensive coverage of cost concepts, inflation, ACRS and modern methods of depreciation, income taxes, economic analysis.

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No matter how impressive or how sophisticated an engineering design might be, if it fails to ‘ ‘ measure up ’ ’ economically, it will usually be doomed to failure. The following 10 principles of engineering economic analysis provide a foundation for this text: 1. Money has a time value.

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The next three principles focus on evaluation criteria. These include establishing consistent evaluation criteria, developing common performance measurements and considering all relevant monetary and non-monetary criteria. The final two principles focus on analysis. These include weighing risks against potential rewards and performance monitoring.

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Principle 5: Consider All relevant Criteria The decision maker will normally select the alternative that will best serve the long-term interests of the owners of the organization. In engineering economic analysis, the primary criterion relates to the long-term financial interests of the owners. This is based on the assumption that available capital will be allocated to provide maximum monetary return to the owners. Often, though, there are other organizational objectives you would like to ...

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Engineering economics, previously known as engineering economy, is a subset of economics concerned with the use and "...application of economic principles" in the analysis of engineering decisions. As a discipline, it is focused on the branch of economics known as microeconomics in that it studies the behavior of individuals and firms in making decisions regarding the allocation of limited resources. Thus, it focuses on the decision making process, its context and environment. It is pragmatic by

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This detailed treatment of the principles and techniques needed to make an analysis of the economic investment alternatives uses a cash flow approach throughout the text. Provides recent updates of cost concepts, inflation, income taxes, risk analyses, and more. Contains approximately 200 worked-out examples and 400 problems, with answers to ...

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Principles of Engineering Economic Analysis teaches engineers to properly and methodically evaluate their work on an economic basis, and to convey it effectively to those who have the power to say "yea" or "nay." The course is comprehensive and flexible; it includes all standard topics plus stronger coverage of more advanced analysis techniques than other courses.

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Principles of Engineering Economic Analysis 2nd Edition by J.A. White (Author), M.H. Agee (Author), K. Case (Author) & 0 more 4.2 out of 5 stars 6 ratings

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Engineering economics requires the application of engineering design and analysis principles to provide goods and services that satisfy the consumer at an affordable cost. Engineering economics is also relevant to the design engineer who considers material selection. Engineers are planners and builders.

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This text is an unbound, binder-ready edition. Fundamentals of Engineering Economic Analysis, 1e provides streamlined topical coverage with a modern and pedagogically-rich presentation. This text features a wealth of real-world vignettes to reinforce how students will use economics in their future careers as well as to drive student motivation and interest. An enlightening approach combined with strong digital offerings make the course manageable, equipping students with the knowledge they need as future engineers.

This concise book provides engineers with the tools to evaluate the cost of their work and convey the project to key decision makers. It follows an integrative approach that arms them with a seven-step Systematic Evaluation and Analysis Technique as well as a strong understanding of cash flows. The new fifth edition has also been expanded from eight to 16 chapters, covering critical topics such as time value of money, measures of worth, depreciation, inflation, and capital rationing. Practicing engineers will be able to apply these principles and techniques to make the most effective economic decisions.

Fundamentals of Engineering Economic Analysis offers a powerful, visually-rich approach to the subject—delivering streamlined yet rigorous coverage of the use of economic analysis techniques in engineering design. This award-winning textbook provides an impressive array of pedagogical tools to maximize student engagement and comprehension, including learning objectives, key term definitions, comprehensive case studies, classroom discussion questions, and challenging practice problems. Clear, topically—organized chapters guide students from fundamental concepts of borrowing, lending, investing, and time value of money, to

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more complex topics such as capitalized and future worth, external rate of return, depreciation, and after-tax economic analysis. This fully-updated second edition features substantial new and revised content that has been thoroughly re-designed to support different learning and teaching styles. Numerous real-world vignettes demonstrate how students will use economics as practicing engineers, while plentiful illustrations, such as cash flow diagrams, reinforce student understanding of underlying concepts. Extensive digital resources now provide an immersive interactive learning environment, enabling students to use integrated tools such as Excel. The addition of the WileyPLUS platform provides tutorials, videos, animations, a complete library of Excel video lessons, and much more.

This unified examination of economic analysis principles from a cash flow viewpoint, provides a systematic, 7-step approach for performing a comparison of investment alternatives. It offers comprehensive coverage of cost concepts, inflation, ACRS and modern methods of depreciation, income taxes, economic analysis. It features more current economy examples, a new chapter on reality issues, and new material on non-manufacturing examples.

"We are pleased to present Fundamentals of Engineering Economic Analysis 2nd edition, a fully up to date text to serve an undergraduate engineering economics course. Building upon the successful award-winning first edition, the new text continues to offer a streamlined delivery of engineering economic fundamentals. In its first edition, the text was carefully optimized to serve a 1-semester, 1-3 credit-hour course without sacrificing rigor or essential content. The core content and approach of Fundamentals of Engineering Economic Analysis are built on the strong foundation of Principles of Engineering Economic Analysis, now in its sixth edition, by John A. White, Kenneth E. Case, and David B. Pratt. As such, the content has been thoroughly and successfully class-tested, and reflects decades' worth of accuracy checking"--

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Covering detailed discussion of fundamental concepts of economics, the textbook commences with comprehensive explanation of theory of consumer behavior, utility maximization and optimal choice, profit function, cost minimization and cost function. The textbook covers methods including present worth method, future worth method, annual worth method, internal rate of return method, explicit re-investment rate of return method and payout method useful for studying economic studies. A chapter on value engineering discusses important topics such as function analysis systems techniques, the value index, value measurement techniques, innovative phase and constraints analysis in depth. It facilitates the understanding of the concepts through illustrations and solved problems. This text is the ideal resource for Indian undergraduate engineering students in the fields of mechanical engineering, computer science and engineering and electronics engineering for a course on engineering economics/engineering economy.

This text is an unbound, binder-ready edition. Engineers need to "sell" engineering projects and products to managers, executives, and customers economically as well as technologically, environmentally, aesthetically, and so on. Principles of Engineering Economic Analysis, 6e teaches engineers to properly and methodically evaluate their work on an economic basis, and to convey it effectively to those who have the power to say "yea" or "nay." The 6th edition is updated and expanded to be comprehensive and flexible - it includes all standard topics plus stronger coverage of more advanced analysis techniques than other books(e.g., risk analysis, sensitivity analysis, cost estimating, public sector economics, capital budgeting, etc.), with the most thorough integration and guidance for spreadsheet use. The text provides a unified treatment of economic analysis principles and techniques from a cash flow perspective, a proven classroom approach

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that is very successful in practice. Chapter-opening stories about well-known companies, engineering and personal finance examples throughout the text, and external web resources help motivate students. FE-Like problems at the end of each chapter give students practice with the kinds of problems they'll encounter on the FE exam. The 6th edition provides students and instructors the latest tax information, and up-to-date company and industry information in the chapter opening stories, reflecting changes resulting from the recent tumult in the economy, so that students can work with the most current and relevant information. The 6th edition also highlights opportunities for instructors and students to benefit from the teaching and learning resources available in the WileyPLUS course (instructors may choose to adopt this text with WileyPLUS), including: Algorithmic homework problems that provide: instant feedback to students, link-to-text where students may review if they're having trouble, and Tutorial and Video Solution help. All Tutorial help is available at the instructor's discretion. 96 Worked Problem Videos, demonstrating how to solve problems, both algebraically and with Excel.

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