

EXAMPLE 1-2 Application of the Engineering Economic Analysis

EXAMPLE 1-2

Application of the Engineering Economic Analysis Procedure

A friend of yours bought a small apartment building for \$100,000 in a college town. She spent \$10,000 of her own money for the building and obtained a mortgage from a local bank for the remaining \$90,000. The *annual* mortgage payment to the bank is \$10,500. Your friend also expects that annual maintenance on the building and grounds will be \$15,000. There are four apartments (two bedrooms each) in the building that can each be rented for \$360 per month.

Refer to the seven-step procedure in Table 1-1 (left-hand side) to answer these questions:

- (a) Does your friend have a problem? If so, what is it?
- (b) What are her alternatives? (Identify at least three.)
- (c) Estimate the economic consequences and other required data for the alternatives in Part (b).
- (d) Select a criterion for discriminating among alternatives, and use it to advise your friend on which course of action to pursue.
- (e) Attempt to analyze and compare the alternatives in view of at least one criterion in addition to cost.
- (f) What should your friend do based on the information you and she have generated?

continued on next slide

Principle Of Engineering Economic Analysis

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Principles of Engineering Economic Analysis John A. White, Marvin H. Agee, Kenneth E. Case, 1989-01-31 A new edition of the widely used engineering economics text Employs a cash flow approach to economic theory and prepares the reader to systematically perform economic justification of capital investments in a real world setting Stresses learning by example with real life cases Updated and revised to reflect current practice covering before and after tax analyses and cost of capital including the effects of inflation on capital investment public sector economics *Principles of Engineering Economic Analysis* John A. White, Kenneth E. Case, David B. Pratt, 2012-10-16 This text is an unbound binder ready edition Principles of Engineering Economic Analysis 6th edition 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 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 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 Principles of Engineering Economic Analysis Andrew J. Szonyi, 2000-01-01 **Principles of Engineering Economic Analysis** Pratt, 1997-12-01 *Engineering Economic Principles* Henry Malcolm Steiner, 1992

Principles of Engineering Economic Analysis White, 1989-02-01 **Fundamentals of Engineering Economic Analysis** John A. White, Kellie S. Grasman, Kenneth E. Case, Kim LaScola Needy, David B. Pratt, 2020-07-28 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 more complex topics such as capitalized and future worth external rate of return deprecation 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

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Engineering Economic Analysis Donald G. Newnan,Ted G. Eschenbach,Jerome P. Lavelle,2004

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Principles of Engineering Economic Analysis John A. White,1998-01-05 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

Principles of Engineering Economics with Applications Zahid A. Khan,Arshad N. Siddiquee,Brajesh Kumar,Mustufa H. Abidi,2018-10-18 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

Principles of Engineering Economic Analysis John A. White,Marvin H. Agee,Kenneth E. Case,1984-01-01

Teacher's Manual to Principles of Engineering Econ Omic Analysis John A. White,Marvin H. Agee,Kenneth E. Case,1977-10-01

Engineering Economy Zahid A. Khan,2012 Engineering Economy is meant as an introductory course for undergraduate students and it explains and demonstrates the principles and techniques of engineering economic analysis as applied in different fields of engineering

Fundamentals of Economics for Applied

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Engineering Economics Analysis for Evaluation of Alternatives Ira H. Kleinfeld, 1993-01-12 The engineer's guide to economical decision making Engineering economics is an important subject for both aspiring and practicing engineers As global competition increases engineers are increasingly asked to analyze and monitor their processes and products not only to ascertain their level of quality but their cost effectiveness as well It is imperative to know the scientific and engineering principles of design work and decision making in a world where technology is constantly evolving Kleinfeld's Engineering Economics Analysis for Evaluation of Alternatives offers students professors and professionals guidance for making smart economical decisions when it comes to design and manufacturing Principles of Engineering Economic Analysis (Canadian Edition) Andrew J. Szonyi, 1989-01-01

Principles of Engineering Economic Analysis, 6e Binder Ready Version with WileyPLUS Card Set John A. White, Kenneth E. Case, David B. Pratt, 2014-08-14 **Engineering Economics and Costing** Mishra Sasmita, 2011-08 This substantially revised and updated edition of Engineering Economics and Costing continues to build on the fundamental principles and applications of the subject Divided into three parts Part I Engineering Economics Part II Financial System and Part III Cost Accounting the text discusses in a simple and easy to understand language such topics as interest formulas and their applications and various methods for example the present worth method of comparison future worth method annual equivalent method and the rate of return method It also includes in its Appendix interest tables for a wide range of interest rates 0 25 50% and for a period ranging from one year to 100 years These tables along with the topics discussed will help students of both Engineering and MCA in evaluating engineering projects What is New to This Edition Chapter 2 gives a distinction between Microeconomics and Macroeconomics Chapter 2 also explains the concept of income elasticity cross elasticity of demand and elasticity of substitution At the end Chapter 3 a variety of simple numerical problems with solutions are given to illustrate the concepts discussed Chapter 8 provides more examples illustrating the various aspects of break even analysis While the book is intended primarily as a text for B Tech and MCA courses of Biju

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