

ACTIVITY 1

Engineering Economic Analysis Procedure

Learning Outcome:

- Apply Engineering Economics Analysis Procedure

Objective:

The specific goal for this exercise is:

- to apply and analyze Engineering Economics procedure by evaluating a company-based problem.

Activity Task:

This is a group activity. Analyze the given situation and answer what is being asked on the latter part of the problem. Show your complete solution to the problem.

Problem:

During your first month as an employee at Greenfield Industries (a large drill-bit manufacturer), you are asked to evaluate alternatives for producing a newly designed drill bit on a turning machine. Your boss' memorandum to you has practically no information about what the alternatives and what criteria should be used. The same task was posed to a previous employee who could not finish the analysis, but she has given you the following information:

An old turning machine valued at \$350,000 exists (in the warehouse) that can be modified for the new drill bit. The in-house technicians have given an estimate of \$40,000 to modify this machine, and they assure you that they will have the machine ready before the projected start date (although they have never done any modifications of this type). It is hoped that the old turning machine will be able to meet production requirements at full capacity. An outside company, McDonald Inc., made the machine seven years ago and can easily do the same modifications for \$60,000. The cooling system used for this machine is not environmentally safe and would require some disposal costs. McDonald Inc. has offered to build a new turning machine with more environmental safeguards and higher capacity for a price of \$450,000. McDonald Inc. has promised this machine before the startup date and is willing to pay any late costs. Your company has \$100,000 set aside for the start-up of the new product line of drill bits.

Engineering Economics Analysis Solution

Roman Wölfel



Engineering Economics Analysis Solution:

Solution Manual for Engineering Economic Analysis Donald G. Newnan, Jerome P. Lavelle, Ted G. Eschenbach, 2000-06

Engineering Economic Analysis Donald G. Newnan, 1976

Engineering Economic Analysis Donald G. Newnan, 1979

Fundamentals of Engineering Economics and Decision Analysis David Whitman, Ronald Terry, 2012-04-27

The authors cover two general topics basic engineering economics and risk analysis in this text Within the topic of engineering economics are discussions on the time value of money and interest relationships These interest relationships are used to define certain project criteria that are used by engineers and project managers to select the best economic choice among several alternatives Projects examined will include both income and service producing investments The effects of escalation inflation and taxes on the economic analysis of alternatives are discussed Risk analysis incorporates the concepts of probability and statistics in the evaluation of alternatives This allows management to determine the probability of success or failure of the project Two types of sensitivity analyses are presented The first is referred to as the range approach while the second uses probabilistic concepts to determine a measure of the risk involved The authors have designed the text to assist individuals to prepare to successfully complete the economics portions of the Fundamentals of Engineering Exam

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Introduction Interest and the Time Value of Money Project Evaluation Methods Service Producing Investments Income Producing Investments Determination of Project Cash Flow Financial Leverage Basic Statistics and Probability Sensitivity Analysis

Principles of Engineering Economic Analysis White, 1989-02-01

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

Essentials of Engineering Economic Analysis Donald G. Newnan, Jerome P. Lavelle, Ted G. Eschenbach, 2002

Essentials of Engineering Economic Analysis Second Edition includes the first twelve chapters of the best selling textbook Engineering Economic Analysis Eighth Edition 0 19 515152 6 by Donald G Newnan Jerome P Lavelle and Ted G Eschenbach This compact version introduces the fundamental concepts of engineering economics and covers essential time value of money principles for engineering projects It isolates the problems and decisions engineers commonly face and examines the necessary tools for analyzing and solving those problems Revised in 2001 the second edition focuses on the use of spreadsheets teaching students to use the enormous capabilities of modern software The majority of the chapters conclude with sections designed to help students create spreadsheets based on the material covered in each chapter The book s organization allows omission of spreadsheet instruction without loss of continuity This emphasis on spreadsheet computations provides excellent preparation for real life engineering economic analysis problems

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Solutions Manual Engineering Economic Analysis Donald G. Newnan,1980 *Instructor's Solutions Manual for Engineering Economy* Professor Emeritus of Engineering Management Ted Eschenbach,Ted Eschenbach,2011 *Basics of Engineering Economy* Leland T. Blank,Anthony J. Tarquin,2007-11 This market leaders distinguishing pedagogical characteristics include its easy to read writing style chapter objectives worked examples integrated spreadsheets

Fundamentals of Engineering FE exam questions and numerous end of chapter problems Spreadsheets are prominent and integrated within the chapters **Basics of Engineering Economy** provides undergraduate students and practicing professionals with a solid preparation in the financial understanding of engineering problems and projects as well as the techniques needed for evaluating making sound economic decisions *Fundamentals of Engineering Economic Analysis, Asia Edition* John A. White,Kellie S. Grasman,Kenneth E. Case,Kim LaScola Needy,David B. Pratt,2021-06-22 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

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Engineering Economic Analysis Donald G. Newnan, Ted Eschenbach, Jerome P. Lavelle, 2012 This eleventh edition of the market leading *Engineering Economic Analysis* offers comprehensive coverage of financial and economic decision making for engineers with an emphasis on problem solving life cycle costs and the time value of money The authors concise accessible writing practical emphasis and contemporary examples linked to students everyday lives make this text the most popular among students And with the most extensive support package this is the easiest book to teach from New to the Eleventh Edition For instructors considering putting all or part of their course online we now offer all of the electronic material for upload to Learning Management Systems More than 340 new and revised end of chapter problems Greatly enhanced coverage of Microsoft Excel software including 36 video based Excel tutorials aimed at allowing instructors to spend more time teaching the concepts and less time teaching the software Up to date chapter opening vignettes that reflect current global events New appendix on using financial and the HP 33s 35s calculators for Time Value of Money calculations a great time saver in class and on the FE Exam Updated to include the latest tax legislation and rates Enhanced coverage of ethics

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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 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

Intelligent and Fuzzy Techniques: Smart and Innovative Solutions

Cengiz Kahraman, Sezi Cevik Onar, Basar Oztaysi, Irem Ucal Sari, Selcuk Cebi, A. Cagri Tolga, 2020-07-10 This book gathers the most recent developments in fuzzy machine learning risk assessment heuristics and clustering the book is a valuable resource for academics M Sc and Ph D students as well as managers and engineers in industry and the service sectors

Contemporary Engineering Economics Chan S. Park, Ron Pelot, Kenneth C. Porteous, Ming J. Zuo, 2011-02-15 Student's Quick Study Guide for Engineering Economic Analysis Donald G. Newnan, 1998 This 320 page book is available separately from the main text Engineering Economic Analysis 8 e It contains a 32 page summary of engineering economy followed by 386 problems each with a detailed solution *Engineering Economics* John Charles Lounsbury Fish, 1923 *Solutions Manual to Accompany Economic Analysis for Engineering and Managerial Decision Making* Norman N. Barish, 1978

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