

## INTRODUCTION TO ENGINEERING ECONOMICS

- Decisions are made routinely by:
  - individuals in everyday life;
  - engineers on the job;
  - managers who supervise the activities of others;
  - a corporate CEO who operates a business;
  - government officials who work for the public good; etc.
- Most decisions involve **money**, called **capital** or **capital funds**, which is usually limited in amount
- Decision of where and how to invest this limited capital is motivated by a primary goal of adding value as future, anticipated results of the selected alternative are realized.
- Engineers play a vital role in capital investment decisions based upon their ability and experience to design, analyze, and synthesize.
- Factors upon which a decision is based are commonly a combination of economic and noneconomic elements. Engineering economy deals with the economic factors.
- By definition,
  - **Engineering Economics** involves formulating, estimating, and evaluating the expected economic outcomes of alternatives designed to accomplish a defined purpose.
- Mathematical techniques simplify the economic evaluation of alternatives.
- The analyses take into cognizance the fact that virtually all engineering problems have more than one way of solving them. The choice of the best alternative using economic analysis is what engineering economics is all about.
- However, all significant factors of the economy must be accurately taken into consideration and appropriately handled before a chosen alternative is arrived at.
- The best estimates of what is expected to occur and the decision usually involve four essential elements:
  - Cash flows
  - Times of occurrence of cash flows
  - Interest rates for time value of money
  - Measure of economic worth for selecting an alternative
- **Sensitivity analysis** is utilized to determine how a decision might change according to varying estimates, especially those expected to vary widely due to changing circumstances and unplanned events.

**Measure of Worth:** the criterion used to select an alternative in engineering economy for a specific set of estimates. These include:

Present worth (PW)	Rate of return (ROR)	Payback period
Future worth (FW)	Benefit/cost (B/C)	Cost Effectiveness
Annual worth (AW)	Capitalized cost (CC)	Economic value added (EVA)

- **Time value of money:** explains the change in the amount of money **over time** for funds that are owned (invested) or owed (borrowed). This is the most important concept in engineering economics.
- **Steps in an engineering economy study** (Decision-making process) are as follows:
  - **Definition of the problem:** Identify and understand the problem.

# Essentials Of Engineering Economics

**James L. Riggs**



## **Essentials Of Engineering Economics:**

**Essentials of Engineering Economics** James L. Riggs, Thomas M. West, 1986      **Essentials of Engineering Economics** James L. Riggs, Alfred L. Kahl, William F. Rentz, 1983      *Essentials of Engineering Economics* Erick Kasner, 1979-01-01      *Fundamentals of Engineering Economics* Chan S. Park, 2004 For Engineering Economics courses found in departments of Industrial Civil Mechanical and Electrical Engineering New from the author of the best selling Contemporary Engineering Economics text *Fundamentals of Engineering Economics* offers a concise but in depth coverage of all fundamental topics of Engineering Economics      **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      **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 **New Features** Over sixty five new homework problems added to the ends of chapters Improved content and readability Greater emphasis on the use of spreadsheets in real life situations Chapter 2 Engineering Costs and Cost Estimating an entirely new chapter suggested by adopters answers the question Where do the numbers come from An increased focus on the MACRS depreciation method with a new section on recaptured depreciation and asset disposal An updated section on after tax replacement efforts in Chapter 12 Replacement Analysis Supplements *Solutions Manual for Engineering Economic Analysis* This 350 page manual has been revised and checked by the authors for accuracy all end of chapter problems are fully solved by the authors Available free to adopting professors ISBN 1 57645 052 X **Compound Interest Tables** A separate 32 page pamphlet with the compound interest tables from the textbook Classroom quantities are free to adopting professors ISBN 0 910554 08 0 **Exam Files** Fourteen quizzes

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