

Chapter 1

Foundations of Engineering Economy

- 1.1** The four elements are cash flows, time of occurrence of cash flows, interest rates, and measure of economic worth.
- 1.2** (a) Capital funds are money used to finance projects. It is usually limited in the amount of money available.
- (b) Sensitivity analysis is a procedure that involves changing various estimates to see if/how they affect the economic decision.
- 1.3** Any of the following are measures of worth: present worth, future worth, annual worth, rate of return, benefit/cost ratio, capitalized cost, payback period, economic value added.
- 1.4** First cost: *economic*; leadership: *non-economic*; taxes: *economic*; salvage value: *economic*; morale: *non-economic*; dependability: *non-economic*; inflation: *economic*; profit: *economic*; acceptance: *non-economic*; ethics: *non-economic*; interest rate: *economic*.
- 1.5** Many sections could be identified. Some are: I.b; II.2.a and b; III.9.a and b.
- 1.6** Example actions are:
- Try to talk them out of doing it now, explaining it is stealing
 - Try to get them to pay for their drinks
 - Pay for all the drinks himself
 - Walk away and not associate with them again
- 1.7** *This is structured to be a discussion question; many responses are acceptable.* It is an ethical question, but also a guilt-related situation. He can justify the result as an accident; he can feel justified by the legal fault and punishment he receives; he can get angry because it WAS an accident; he can become tormented over time due to the stress caused by accidentally causing a child's death.
- 1.8** *This is structured to be a discussion question; many responses are acceptable.* Responses can vary from the ethical (stating the truth and accepting the consequences) to unethical (continuing to deceive himself and the instructor and devise some on-the-spot excuse).
- Lessons can be learned from the experience. A few of them are:
- Think before he cheats again.
 - Think about the longer-term consequences of unethical decisions.
 - Face ethical-dilemma situations honestly and make better decisions in real time.

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Y Pai



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This college level text provides 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 and making sound economic decisions Distinguishing characteristics include learning objectives for each chapter an easy to read writing style many solved examples integrated spreadsheets and case studies throughout the text Graphical cross referencing between topics and quick solve spreadsheet solutions are indicated in the margins throughout the text While the chapters are progressive over three quarters can stand alone allowing instructors flexibility for meeting course needs A complete online learning center OLC offers supplemental practice problems spreadsheet exercises and review questions for the Fundamentals of Engineering FE exam **Books in Print Supplement** ,2002 *Engineering Economy* Anthony Tarquin,Leland T Blank,2011-02-22

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Table of Contents Engineering Economy Blank 7th Edition Solutions Manual

1. Understanding the eBook Engineering Economy Blank 7th Edition Solutions Manual
 - The Rise of Digital Reading Engineering Economy Blank 7th Edition Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Economy Blank 7th Edition Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Engineering Economy Blank 7th Edition Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Economy Blank 7th Edition Solutions Manual
 - Personalized Recommendations
 - Engineering Economy Blank 7th Edition Solutions Manual User Reviews and Ratings
 - Engineering Economy Blank 7th Edition Solutions Manual and Bestseller Lists
5. Accessing Engineering Economy Blank 7th Edition Solutions Manual Free and Paid eBooks
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6. Navigating Engineering Economy Blank 7th Edition Solutions Manual eBook Formats
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 - Engineering Economy Blank 7th Edition Solutions Manual Compatibility with Devices
 - Engineering Economy Blank 7th Edition Solutions Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Economy Blank 7th Edition Solutions Manual
 - Highlighting and Note-Taking Engineering Economy Blank 7th Edition Solutions Manual
 - Interactive Elements Engineering Economy Blank 7th Edition Solutions Manual
8. Staying Engaged with Engineering Economy Blank 7th Edition Solutions Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Engineering Economy Blank 7th Edition Solutions Manual
- 9. Balancing eBooks and Physical Books Engineering Economy Blank 7th Edition Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Economy Blank 7th Edition Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Economy Blank 7th Edition Solutions Manual
 - Setting Reading Goals Engineering Economy Blank 7th Edition Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Economy Blank 7th Edition Solutions Manual
 - Fact-Checking eBook Content of Engineering Economy Blank 7th Edition Solutions Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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