

## **Chapter 1**

### **Foundations of Engineering Economy**

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- 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.

# Engineering Economy 7th Edition Chapter 4 Solutions

**O García**



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**Systems Analysis for Civil Engineers** Paul J. Ossenbruggen, 1984-01-18 A systems analysis text which introduces fundamental methods of optimization including graphical and numerical methods and the principles of engineering economics to the planning analysis design and management of civil engineering systems Designed for undergraduates majoring in civil engineering Includes practical problems Higher Engineering Mathematics, 7th ed John Bird, 2014-04-11 A practical introduction to the core mathematics principles required at higher engineering level John Bird's approach to mathematics based on numerous worked examples and interactive problems is ideal for vocational students that require an advanced textbook Theory is kept to a minimum with the emphasis firmly placed on problem solving skills making this a thoroughly practical introduction to the advanced mathematics engineering that students need to master The extensive and thorough topic coverage makes this an ideal text for upper level vocational courses Now in its seventh edition Engineering Mathematics has helped thousands of students to succeed in their exams The new edition includes a section at the start of each chapter to explain why the content is important and how it relates to real life It is also supported by a fully updated companion website with resources for both students and lecturers It has full solutions to all 1900 further questions contained in the 269 practice exercises *Engineering Education*, 1977 **Work Design** Stephan A. Konz, Steven Johnson, 2000 New edition of a text with enough material for a two semester course and useful beyond the classroom as a reference After overview and history chapters coverage is arranged in sections on the design process scientific background work environments time determination and implementation of design Each of the 35 chapters has review questions and references and the new edition includes a disk with relevant software of various sorts including ergonomic forms NIOSH lifting calculations shiftwork evaluations and laboratory exercises on inspection reaction time and measurement Konz is with Kansas State University Johnson U of Arkansas Annotation copyrighted by Book News Inc Portland OR **Introduction to Engineering** Paul H. Wright, 1994 This book is also available through the Introductory Engineering Custom Publishing System If you are interested in creating a course pack that includes chapters from this book you can get further information by calling 212 850 6272 or sending email inquiries to [engineerjwiley.com](mailto:engineerjwiley.com) Examines the roots of engineering through its modern development Describes functions and career paths for various branches of engineering professional responsibilities ethics purpose and importance of engineering societies Discusses engineering design methods along with techniques commonly used to solve problems Provides recommended procedures for handling engineering data Includes two case studies one of which deals with the circumstances and events leading to the space shuttle Challenger accident **The Supply Management Handbook, 7th Ed** Joseph L. Cavinato, 2010-07-05 Turn to the collective wisdom of the field's top experts to understand and solve even the most complex supply management issue For more than three decades The Supply Management Handbook formerly The Purchasing Handbook has been vital for purchasing and supply professionals in every

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