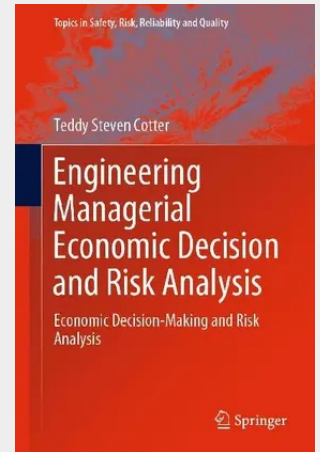


Engineering Managerial Economic Decision and Risk Analysis

Economic Decision-Making and Risk Analysis

This book directs the engineering manager or the undergraduate student preparing to become an engineering manager, who is or will become actively engaged in the management of economic-risk trade-off decisions for engineering investments within an organizational system. In today's global economy, this may mean managing the economic risks of engineering investments across national boundaries in international organizations, government, or service organizations. As such, this is an applied book. The book's goal is to provide an easy to understand, up to date, and coherent treatment of the management of the economic-risk trade-offs of engineering investments. This book accomplishes this goal by cumulatively sequencing knowledge content from foundational economic and accounting concepts to cost estimating to the traditional engineering economics knowledge culminating in fundamental engineering managerial economic decision-making incorporating risk into engineering management economic decisions.

Part 1 Economic Context of Engineering Management Decisions: Managerial Economics of Engineering Organizations.- General Accounting Fundamentals.- Cost Accounting Fundamentals.- Engineering Cost Concepts and Cost Estimating.- Part 2 Economic Analysis of Engineering Activities and Projects: Interest Equivalence.- Measures of Investment Worth.- Depreciation Effects on Engineering Investments.- Tax Effects on Engineering Investments.- Inflation Effects on Engineering Investments.- Incremental Analysis.- Replacement Analysis.- Part 3 Managing Engineering Investments: Setting MARR.- Capital Budgeting Engineering Investments.- Benefit-Cost Ratio Analysis.- Introduction to Management Economic Decision Theory and Risk Analysis.- Appendix A: Use of the Microsoft® Excel® Compound Interest Calculator Spreadsheet.- Appendix B: Chapter Homework Problems: Appendix C: Fundamentals of Engineering (FE) Exam Example Questions.- Bibliography.- Index.



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