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DECISION MAKING IN SYSTEMS ENGINEERING AND MANAGEMENT; Contents; Foreword to the Second Edition; Foreword to the First Edition; Preface to the Second Edition; Acknowledgments; Thoughts for Instructors; Contributors; Acronyms; 1 Introduction; 1.1 Purpose; 1.2 System; 1.3 Stakeholders; 1.4 System Life Cycle; 1.5 Systems Thinking; 1.6 Systems Engineering Thought Process; 1.7 Systems Engineering; 1.8 Engineering Management; 1.9 Systems Decision Process; 1.10 Overview; 1.11 Exercises; References; PART I SYSTEMS THINKING; 2 Systems Thinking; 3 System Life Cycle; 4 Systems Modeling and Analysis
5 Life Cycle CostingPART II SYSTEMS ENGINEERING; 6 Introduction to Systems Engineering; 7 Systems Engineering in Professional Practice; 8 System Reliability; PART III SYSTEMS DECISION MAKING; 9 Systems Decision Process Overview; 10 Problem Definition; 11 Solution Design; 12 Decision Making; 13 Solution Implementation; 14 Summary; Appendix A SDP Trade Space Concepts; Index

Sommario/riassunto

Decision Making in Systems Engineering and Management is a comprehensive textbook that provides a logical process and analytical techniques for fact-based decision making for the most challenging systems problems. Grounded in systems thinking and based on sound systems engineering principles, the systems decisions process (SDP) leverages multiple objective decision analysis, multiple attribute value theory, and value-focused thinking to define the problem, measure stakeholder value, design creative solutions, explore the decision trade off space in the presence of uncertainty, and structure s