Record Nr. UNINA9910830364703321 Decision making in systems engineering and management [[electronic **Titolo** resource] /] / edited by Gregory S. Parnell, Patrick J. Driscoll, Dale L. Henderson Hoboken, NJ,: Wiley, c2011 Pubbl/distr/stampa **ISBN** 0-470-93471-9 1-283-07225-4 9786613072252 0-470-92696-1 0-470-92695-3 Edizione [2nd ed.] Descrizione fisica 1 online resource (547 p.) Collana Wiley Series in Systems Engineering and Management:: v.79 Wiley series in systems engineering and management Altri autori (Persone) ParnellGregory S DriscollPatrick J HendersonDale L Disciplina 620.001/171 620.001171 Systems engineering - Management Soggetti Systems engineering - Decision making Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia DECISION MAKING IN SYSTEMS ENGINEERING AND MANAGEMENT; Nota di contenuto 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

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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