1. Record Nr. UNINA9910143680703321 Autore Gibson John E **Titolo** How to do systems analysis [[electronic resource] /] / John E. Gibson, William T. Scherer, William F. Gibson Hoboken, N.J.,: Wiley-Interscience, c2007 Pubbl/distr/stampa **ISBN** 1-280-90112-8 9786610901128 0-470-13059-8 0-470-13058-X Descrizione fisica 1 online resource (364 p.) Collana Wiley series in systems engineering and management Altri autori (Persone) SchererWilliam T GibsonWilliam F Disciplina 004.21 658.4032 Soggetti System analysis Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto HOW TO DO SYSTEMS ANALYSIS; Contents; Preface; A Personal Note from William T. Scherer; A Personal Note from William F. Gibson; A Personal Note from Scott F. Ferber; Original Preface from Jack Gibson; Acknowledgments; 1 Introduction; 1.1 What Is a System?; 1.2 Terminology Confusion; 1.3 Systems Analysis Equals Operations Research Plus Policy Analysis: 1.4 Attributes of Large-Scale Systems: 1.5 Intelligent Transportation Systems (ITS): An Example of a Large-Scale System: 1.6 Systems Integration: 1.7 What Makes a "Systems Analysis" Different?; 1.8 Distant Roots of Systems Analysis 1.9 Immediate Precursors to Systems Analysis 1.10 Development of Systems Analysis As a Distinct Discipline: The Influence of RAND; Historical Case Study: IIASA (A); Exercises; Case Study: Fun at Six Flags?; Historical Case Study: IIASA (B); 2 Six Major Phases of Systems Analysis; 2.1 The Systems Analysis Method: Six Major Phases; 2.2 The Goal-centered or Top-Down Approach; 2.3 The Index of Performance

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Sommario/riassunto

This book focuses on systems analysis, broadly defined to also include problem formulation and interpretation of proposed alternatives in terms of the value systems of stakeholders. Therefore, the book is a complement, not a substitute to other books when teaching systems engineering and systems analysis. The nature of problem solving discussed in this book is appropriate to a wide range of systems analyses. Thus the book can be used as a stand-alone book for teaching the analysis of systems. Also unique is the inclusion of broad case studies to stress problem solving issues, making How to