

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Record Nr.           | UNINA9910144873803321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Autore                  | Kaufman J. Jerry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Titolo                  | Stimulating innovation in products and services [[electronic resource] ] : with function analysis and mapping / / J.Jerry Kaufman, Roy Woodhead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pubbl/distr/stampa      | Hoboken, NJ, : Wiley-Interscience, c2006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ISBN                    | 1-280-34971-9<br>9786610349715<br>0-470-24808-4<br>0-471-77365-4<br>1-61583-605-5<br>0-471-77366-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Descrizione fisica      | 1 online resource (255 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Collana                 | Wiley series in systems engineering and management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Altri autori (Persone)  | WoodheadRoy (Roy M.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Disciplina              | 658.4063                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Soggetti                | New products - Management<br>Production planning<br>Product management<br>Success in business<br>Organizational effectiveness<br>Corporate culture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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       | STIMULATING INNOVATION IN PRODUCTS AND SERVICES; CONTENTS; FOREWORD; PREFACE; ACKNOWLEDGMENTS; 1 INTRODUCTION; The Meaning of Function; Reading FAST; FAST Logic; Some Observations; What Have We Learned?; Applying FAST to Hardware Products; Reading a FAST Model; Analyzing a FAST Model; Some Unique Ways That a FAST Model Has Been Used; How It All Began; Toward an Innovation Process; Who Models Functions?; Why an Interdisciplinary Team?; Team Makeup; Unlocking Practical Ingenuity; When Should We Use FAST?; Fundamental Questions; Distinguishing Between Problem and Opportunity<br>Difference Between FAST Diagrams and FAST Models<br>Validating Function Models; Outline of This Book; 2 PROBLEM-SOLVING TECHNIQUES; Verb-Noun Function Technique; Fuzzy Problem Technique; Setting Up the |

Problem in the Fuzzy Problem Technique; Hierarchical Technique;  
 Verb-Noun and Fuzzy Problem Techniques Within the Hierarchical  
 Technique; Closing Remarks; 3 FUNCTION ANALYSIS; Function Analysis  
 Syntax; Active Verbs; Measurable Nouns; Using Two Words to Describe  
 Functions; Defining and Classifying Functions; Types of Functions;  
 Extrinsic Functions; Intrinsic Functions; Basic Functions  
 Secondary Functions Practical Definitions; Rules Governing Basic  
 Functions; Function Identification Example; Random Function  
 Determination; Levels of Abstraction; Function and Component  
 Selection; Function Cost Matrix; Simplifying the Process; Closing  
 Remarks; 4 FUNCTION ANALYSIS SYSTEM TECHNIQUE; Process  
 Overview; Some Misconceptions; "As Is" Versus "Should Be" Models;  
 Syntax Used to Create and Read a FAST Model; Reading How-Why and  
 Our Intentions; How-Why Versus Why-How Orientation; Reading When  
 to Consider Causality and Consequential Functioning; Key Elements of a  
 FAST Model; Scope Lines  
 Highest-Order Function(s) Lowest-Order Function(s); Basic Function(s);  
 Content; Requirements or Specifications; Dependent Functions;  
 Independent (Support) Functions; Logic Path Functions; Articulating  
 Theories in FAST; Variations of How-Why Questions; Considering And-  
 Or Along the Logic Path; Considering And in the When Direction;  
 Considering Or in the When Direction; FAST Model-Building Process:  
 Product Example; Expanding the Number of Functions; Case for Using  
 Active Verbs; Purpose of Expanding Functions; Avoiding Duplicate  
 Functions; Starter Kit Functions  
 Preparations for Building a FAST Model Build How and Test Why;  
 Relationship of the Left Scope Line to the Basic Function; Right Scope  
 Line; Left Scope Line; What's the Problem?; Defining the Problem; Three  
 Questions Before Starting the FAST Process; How the Strategic  
 Questions Are Asked in a Workshop; Symbols and Notations Used in  
 FAST Modeling; Taking Exception to the FAST Rules; Independent  
 Functions Above the Logic Path, Activities Below the Logic Path; No  
 Activities in the Major Logic Path; Only Two Words Used to Describe  
 Functions; Loop-Back Modeling; Validating the Logic Flow  
 Exploration Drilling Model

## Sommario/riassunto

Practical techniques to help any organization innovate and succeed In  
 this groundbreaking book, internationally acclaimed authors  
 demonstrate that innovation can be mastered via systematic and  
 replicable methods. Following careful instructions and guidelines,  
 readers discover how to foster the ingenuity that resides within all  
 organizations and how it can be most efficiently and effectively used to  
 create value. At the core of this book is the Function Analysis Systems  
 Technique (FAST). FAST is a powerful mapping technique that  
 graphically models projects, products, and proce