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Titolo	Competitive engineering [[electronic resource] ] : a handbook for systems engineering, requirements engineering, and software engineering using Planguage // Tom Gilb ; editor, Lindsey Brodie
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Altri autori (Persone)	BrodieLindsey
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Nota di bibliografia	Includes bibliographical references (p. [439]-447) and indexes.
Nota di contenuto	Front cover; Title page; Copyright page; Table of contents; Foreword; Endorsements; Preface; Background to writing Competitive Engineering; Major influences on Planguage; How to use this book; Some book conventions; Acknowledgements; Further acknowledgements; Introduction; What is in Competitive Engineering?; How was Competitive Engineering developed?; What is special about Planguage?; How to use Competitive Engineering; Structure of Competitive Engineering; Format of Competitive Engineering; A friendly warning; 1 Planguage Basics and Process Control: The Purpose of Planguage 1.1 Introduction: Why We Need a Different 'Systems Engineering' Approach Learning through Rapid Feedback; Dynamic Adaptability; Capturing the Requirements; Focus on Results; Interdisciplinary Communication; Leadership and Motivation; Receptiveness to Organizational Change; Continuous Process Improvement; Practical Strategies for Systems Engineering; 1.2 Practical Example: Twelve Tough Questions; 1.3 Language Core: Planguage Basics and Process Control; Planguage Specification Language; A Set of Defined Concepts; A Set of Defined Parameters and Grammar; A Set of Icons

Planguage Process Descriptions Requirement Specification (RS); Design Engineering (DE); Specification Quality Control (SQC); Impact Estimation (IE); Evolutionary Project Management (EVO, also known as Evo); Standards; Rules; Process Descriptions; Entry Conditions; Procedure; Exit Conditions; 1.4 Rules: Generic Rules for Technical and Management Specification; 1.5 Process Description: Generic Project; Entry Conditions; Procedure; Exit Conditions; Generic Entry and Exit Process and Conditions; Process: Generic Entry or Generic Exit; Procedure; 1.6 Principles: Generic Project  
1.7 Additional Ideas Continuous Process Improvement; 1.8 Further Example/Case Study: Continuous Process Improvement at Raytheon; Background; Aim; Financing the Improvements; Measuring the Effects; Calculating Savings; 1.9 Diagrams/Icons; Some Basic Planguage Icons; Document or Specification; Plan-Do-Study-Act Process Cycle; 1.10 Summary: Planguage Basics and Process Control; 2 Introduction to Requirements: Why?; 2.1 Introduction to Requirements Specification; Definition of Requirements; Key Issues for Requirements; Identifying the critical stakeholders; Separating Ends and Means  
Identifying the key requirements Quantifying success and failure; Understanding the past and the future - benchmarks and state-of-the-art; Considering the timescales for delivery of requirements; Avoiding the 'ambiguity trap'; Handling complex requirements; Allowing requirements to evolve; 2.2 Practical Example: What is 'Flexibility Improvement?'; Analyzing a requirement; Decomposition of Requirements; Scalar Requirements; 2.3 Language Core: System Attributes and Requirement Specification Types; System Attributes; System; Attribute; Function; Performance; Resource; Design; Requirement Types  
Vision

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## Sommario/riassunto

Competitive Engineering documents Tom Gilb's unique, ground-breaking approach to communicating management objectives and systems engineering requirements, clearly and unambiguously. Competitive Engineering is a revelation for anyone involved in management and risk control. Already used by thousands of project managers and systems engineers around the world, this is a handbook for initiating, controlling and delivering complex projects on time and within budget. The Competitive Engineering methodology provides a practical set of tools and techniques that enable readers to effectively

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