

(Free download) Competitive Engineering: A Handbook For Systems Engineering, Requirements Engineering, and Software Engineering Using Planguage

Competitive Engineering: A Handbook For Systems Engineering, Requirements Engineering, and Software Engineering Using Planguage

Tom Gilb

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Tom Gilb : Competitive Engineering: A Handbook For Systems Engineering, Requirements Engineering, and Software Engineering Using Planguage before purchasing it in order to gage whether or not it would be worth my time, and all praised Competitive Engineering: A Handbook For Systems Engineering, Requirements Engineering, and Software Engineering Using Planguage:

0 of 0 people found the following review helpful. too obscure to adopt easily
By Carl Kirstein
Gilb's planguage approach is a bit too obscure for me, and I fear that if I use it in any projects that the project engineers would look at me as though I have lost my mind. It is like learning a new coding language. For this to be adopted successfully higher ups would have to buy into it and then it gets implemented through a more thorough change management process. It is not simply something an individual will pick up and start using successfully. Alas I cannot comment about how well his approach works, but it was highly recommended by academics in systems engineering.
1 of 1 people found the following review helpful. Looking For Requirements Development Examples
By Cha Cha's Dad
I was looking for a book on requirements development and found this book to be on topic, but not a bulls-eye. I would have liked more in-depth examples, as the provided ones just touched the surface. However, I did find the book thought provoking and thus a 4 star rating. Specifically, I found the various requirement-development templates that were provided as a good means of collecting thoughts around requirement topics. In my attempts to apply the templates, they helped refine my thoughts as to the issues surrounding requirements development. The book refers to the author's web site for further information and examples. I'd give that site a 2 1/2 star rating, as the information there was rougher information than provided in the book. I'd recommend this book for anyone contemplating requirement development. The reader is left to generate their own examples.
0 of 1 people found the following review helpful. Excellent Systems Engineering Book
By Joao Cortez
This is one the books which has caused a great impression on me. It helps to get away from high-level, gut-feeling, fuzzy goals and descriptions to very concrete targets, unambiguous requirements and rational decisions. This strikes a chord at the heart of systems design and architecture, which consists in maximizing a set of business goals with limited resources (time, budget, personnel). I highly recommend it.

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 design, manage and deliver results in any complex organization - in engineering, industry, systems engineering, software, IT, the service sector and beyond. Elegant, comprehensive and accessible, the Competitive Engineering methodology provides a practical set of tools and techniques that enable readers to effectively design, manage and deliver results in any complex organization - in engineering, industry, systems engineering, software, IT, the service sector and beyond. Provides detailed, practical and innovative coverage of key subjects including requirements specification, design evaluation, specification quality control and evolutionary project management. Offers a complete, proven and meaningful 'end-to-end' process for specifying, evaluating, managing and delivering high quality solutions. Tom Gilb's clients include HP, Intel, CitiGroup, IBM, Nokia and the US Department of Defense.

"This stuff works. Competitive Engineering contains powerful tools that are both practical and simple - a rare combination. Over the last decade, I have applied Tom Gilb's tools in a variety of settings including product development, service delivery, manufacturing, site construction, IT, eBusiness, quality marketing, and management, on projects of various sizes. Thousands of engineers have been through Competitive Engineering training and Planguage workshops that I have authored. The vast majority of students immediately recognize their value and go on to use them beneficially on projects. Competitive Engineering is based on decades of practical experience, feedback, and improvement, and it shows." - Erik Simmons, Intel Corporation, Requirements Engineering Practice Lead, Corporate Quality Network
"Fundamentally, the book presents a new take on best practices in systems engineering and management. The book passed my value-added test, when I realized that I was photocopying several pages for future reference, to be part of my 'toolkit' of helpful tips and techniques. I particularly enjoyed reading the 10 often witty, summary principles in each chapter. Perseverance pays off with Competitive Engineering. The book is not a quick read, which Tom acknowledges. You have to carefully study some of the pages to understand the concepts being presented. The reward occurs when you glean the nuggets of wisdom from the numerous practical examples, case studies, and Planguage examples. Tom's way of presenting the CE concepts makes the book a useful addition to the systems engineers' library." - Jerry Huller, Raytheon
"I found Planguage to be an interesting and noble idea for the enhancement of communication in the product development environment. Systems engineering professionals wanting another perspective on applying SE techniques to real product development and those wanting to add additional techniques/ methods to their toolbox will gain most from this book. Readers should have a fundamental knowledge of systems engineering principles and some practical product development experience to realize the full value of this work. I found the chapters describing 'Impact Estimation', 'Evolutionary Project Management' and 'Specification Quality Control' to be specifically relevant and ripe for application to various product development environments. Overall, the book passes my acid test as a useful reference for Systems engineering professionals... Tom meets his objectives in providing a current definition of

Planguage concepts and providing a handbook of fundamental SE principles ready for application with his practical experience and unique product development perspective.”? Martin Coe President-Closed Loop Engineering, Technical Program Director- INCOSE Colorado;hellip;for those professionals serious about tackling the requirements specification effort in any real project. I am excited about it. He offers his Planguage for structuring the system engineering process and gets at issues of risk, success and failure criteria and evolutionary project development in a rational way. This book is a must read, re-read and study for students and practitioners working in the murky area of mapping the problem domain to the solution domainhellip;It is, as promised, a Handbook. Buy it, and you will use it. It will not collect dust on your bookshelf. This book is a wonderful contribution to our Software Engineering literature.”? ACM SIGSOFT Software Engineering Notes, January 2006ldquo;Competitive Engineering is an original, experience-based, stimulating, thought-provoking, entertaining, and well worth reading software engineering book.”? IMPROVE, Software Process Improvement Newsletterldquo;Tom Gilb, the father of the Evo methodology, shares his practical, real-world experience for enabling effective collaboration between developers, managers and stakeholders.Although the book describes Planguage (a specification language for systems engineering) in detail, the methodological advice alone is worth the price of the book. Evo is one of the truly underappreciated agile methodologies, and as a result, Gilb's thought-provoking work isn't as well-known as it should be, although I suspect that that will change with this book. The book describes effective practices for requirements and design specification that are highly compatible with the principles and practices of Agile Modeling, yet it goes on to address planning activities, quality and impact estimation. I suspect that this book will prove to be one of the "must read" software development books of 2006.”? SD's Agile Modeling Newsletter, February 2006, By Scott W. Ambler, Ambysoftldquo;I found the rules, principles, and process descriptions associated with the Planguage method particularly interesting and helpful.”? Jayesh G. Dalal, Software Quality Professional, June-August 2006From the Back CoverCompetitive 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. Competitive Engineering copes explicitly with the rapidly changing environment that is a reality for most of us today.Elegant, comprehensive and accessible, the Competitive Engineering methodology provides a practical set of tools and techniques that enable readers to effectively design, manage and deliver results in any complex organization - in engineering, industry, systems engineering, software, IT, the service sector and beyond.* Detailed, practical and innovative coverage of key subjects including requirements specification, design evaluation, specification quality control and evolutionary project management* A complete, proven and meaningful 'end-to-end' process for specifying, evaluating, managing and delivering high quality solutions* Rich in detail and comprehensive in scope, with thought-provoking ideas on every page* Tom Gilb's clients include HP, Intel, CitiGroup, IBM, Nokia and the US Department of Defense