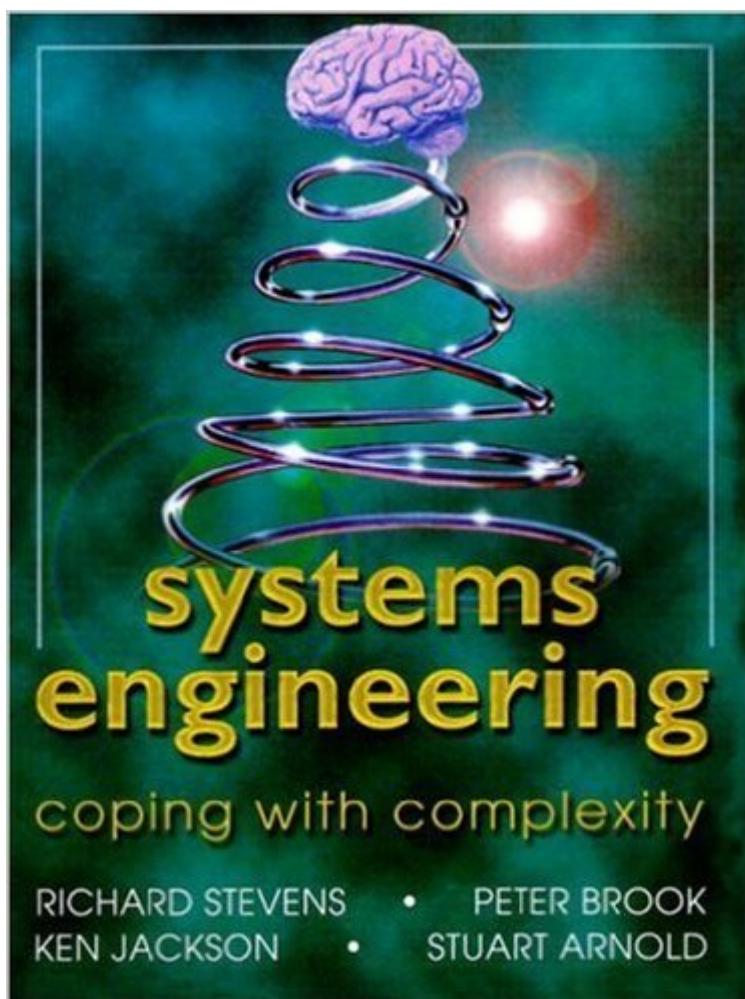


The book was found

System Engineering



Synopsis

In an age of shrinking development cycles, it is harder than ever to bring the right product to market at the right time. Good product, especially complex products, is underpinned by good systems, and systems engineering itself is recognised as the key tool to product development. This book covers the principles of systems design in an easy to read format. The authors have decades of practical industrial experience, and the material is ideal for industrial project teams. For academic courses, the book acts as a component for graduate and undergraduate engineering studies, particularly those on systems engineering. It covers how to handle requirements, architectural design, integration and verification, starting from the perspective of a simple linear lifecycle. The book then gradually introduces recent work on the complexity of real world systems, with issues such as multi-level systems, and iterative development. There is also coverage of the impact of systems engineering at the organisational level.

Book Information

Paperback: 392 pages

Publisher: Prentice Hall; 1 edition (June 22, 1998)

Language: English

ISBN-10: 0130950858

ISBN-13: 978-0130950857

Product Dimensions: 7.4 x 1 x 9.5 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 starsÂ See all reviewsÂ (5 customer reviews)

Best Sellers Rank: #955,076 in Books (See Top 100 in Books) #233 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Technology #467 in Books > Computers & Technology > Hardware & DIY > Design & Architecture #3302 in Books > Textbooks > Computer Science > Programming Languages

Customer Reviews

Stevens' Systems Engineering looks at the place of requirements in a world which consists of complex systems in a highly competitive marketplace. This may be the commercial world or equally the military-industrial world in which systems must literally do battle with their rivals. Stevens and his co-authors (two of them from the UK's Defence Evaluation and Research Agency) know that in this environment, many systems fail, very often because they were inadequately thought out, and often also because their development projects were poorly managed. Chapter 1 begins "The world is

currently gripped by changes more intense and rapid than those triggered by the industrial revolution..." : we are at once swept into the rich, complex, and dangerous life of real system development. For Stevens, the problem in systems engineering is complexity, and its mastery is, as the subtitle implies, the key to success. The design of complex systems demands hierarchy - of organisations, of projects, of contracts, of documents. Hierarchy implies interfaces: if you split a system into three, you probably create three interfaces between the component subsystems. Interfaces in turn imply specialisation: someone develops the hardware; someone else, the software. Similarly, someone (the customer) writes the requirements specification, while someone else (the developer) tries to meet those requirements. This, like the prime contractor - subcontractor relationship, consists of a customer and a supplier: the marketplace reaches right into the core of system engineering. The book therefore covers a startling breadth of subjects, but always with the same practical vision and with the same conceptual tools.

[Download to continue reading...](#)

Earthquake Engineering: From Engineering Seismology to Performance-Based Engineering
Fundamentals of Earthquake Engineering (Civil engineering and engineering mechanics series)
G.Dieter's Li.Schmidt's Engineering 4th (Fourth) edition(Engineering Design (Engineering Series) [Hardcover])(2008) Tissue Engineering I: Scaffold Systems for Tissue Engineering (Advances in Biochemical Engineering/Biotechnology) (v. 1) System Analysis & Design with Case Studies: start system presentation System Performance Tuning, 2nd Edition (O'Reilly System Administration)
ARM System Developer's Guide: Designing and Optimizing System Software (The Morgan Kaufmann Series in Computer Architecture and Design) Linux: Linux Guide for Beginners: Command Line, System and Operation (Linux Guide, Linux System, Beginners Operation Guide, Learn Linux Step-by-Step) How to Build a Computer: Learn How to Build Your Own Computer From Scratch. The Parts, Connecting Everything Together, Installation and more (PC, Windows, Gaming System, Media System, Linux) Linux: Linux Mastery. The Ultimate Linux Operating System and Command Line Mastery (Operating System, Linux) UNIX in a Nutshell: System V Edition: A Desktop Quick Reference for System V Release 4 and Solaris 2.0 (In a Nutshell (O'Reilly)) Solaris 10 System Administration Essentials (Oracle Solaris System Administration Series) The Nutri Ninja Master Prep Blender Whole Food Cookbook: 101 Delicious Soups, Spreads, Entrees, Desserts & Cocktails For Your Ninja Pro, Kitchen System ... and Ninja Kitchen System Cookbooks Book 2) System Center 2012 R2 Configuration Manager Unleashed: Supplement to System Center 2012 Configuration Manager (SCCM) Unleashed Aquaponics: A Beginner's Guide to Create Your Own Amazing Aquaponic System (Aquaponics, Gardening, Hydroponics, Fish, System) Apple's Homekit

Smart Home Automation System Handbook: Discover How to Build Your Own Smart Home Using Apple's New HomeKit System (Smart Home Automation Essential Guides Book 7) The LiceX Solutions System, Natural Lice Treatment Home System Apple Cider Vinegar: Miracle Health System (Bragg Apple Cider Vinegar Miracle Health System: With the Bragg Healthy Lifestyle) Bell Telephone System Technical Publications (Volume 43) September 1964 Part 2 of 2 Parts (No. 1 ESS Switching System) Bell System Practices: 6A Key Telephone System.

[Dmca](#)