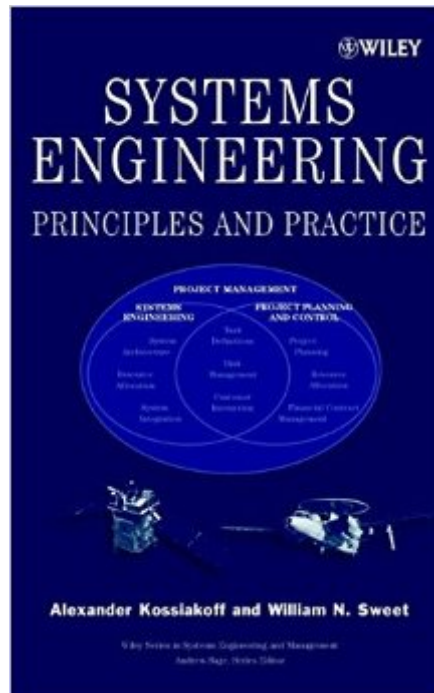


The book was found

Systems Engineering Principles And Practice



Synopsis

This classroom-tested approach is based on a successful course at Johns Hopkins University, originally developed to serve the needs of Westinghouse Co. * Provides an excellent entry-level approach to understanding how to minimize complexity and maximize efficiency in industry and business. * Each chapter will be accompanied by a set of problems to aid understanding.

Book Information

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Best Sellers Rank: #538,960 in Books (See Top 100 in Books) #134 inÂ Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Technology #1084 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics #1507 inÂ Books > Engineering & Transportation > Engineering > Telecommunications & Sensors

Customer Reviews

I have just completed the JHU program in Systems Engineering. This book is the foundation for the curriculum and is a very readable, solid overview of Systems Engineering. All phases of the system life-cycle are introduced and tied together to truly illustrate the process. The book focuses on processes, the tools used will change, but good Systems Engineering will stay the same. The process to derive good requirements that are able to be implemented and tested are the same regardless of technology or field.

Read this after being blessed with a new boss that loved this kind of stuff. However, the book is emphatic that it is applicable to large sophisticated projects. My boss was proud of himself since he was a black belt qualified engineer, but was blind to fact that he made mountain ranges out of tiny grains of sand by applying this stuff to little subassemblies of well known mature materials and

technologies. The result was the slowest most inefficient product development process in the history of mankind. So if you are designing a nuclear power plant, jumbo jet, or a city - it would be good to know what is in this book. However consider this systems stuff as only one tool in your toolbox. If you think it is the only or the most important tool, you are headed to failure. Use it but keep a firm grip on common sense at the same time.

Book laid out very logically. I bought it for my Intro to Sys Eng class at John's Hopkin's this semester. Not too much fluff in each chapter. Short chapters ~20-30 pages. I can't really rate the quality of the material in the book since this is the only Sys Eng book I've ever read. Seems to be good. My prof said that we would use this book for a lot of courses. Quick shipping, is where I go for textbooks I don't have to pay for myself.

This book does a pretty good job of defining some boundaries around the fairly nebulous field of "systems" engineering. At the very least it establishes a foundation of systems engineering for discussion, defines a common language, and methodically lays out the various "stages" of systems engineering. This book was part of my coursework for my Masters of Engineering at Colorado State University. It was in the top 3 of most useful books for me in the program. It's hard to criticize in terms of "enjoyability". To be perfectly honest, I got the degree as part of my career development in a field that I'm very interested in (defense engineering), however this isn't a book you would catch me reading cover-to-cover for "fun". If it's able to keep your attention, the information in this book is extremely valuable. I'm not sure how you make this kind of reading enjoyable (more power to you if you like this stuff). It's well written, but could include more practical (or "real") examples to keep the reader engaged.

Excellent book on Systems Engineering covering Development, Post-Development (Production, Operation and Support), Systems Engineering Management, Software Systems Engineering and Decision Tools on the same book. I believe it is coherent with its goal: "help students learn how to think like systems engineers". It is easy to read and has exercises at the end of each chapter. I recommend it for both students and practitioners.

This textbook is not terrible, but I honestly expected more from a book that is used as the core for a masters level Systems Engineering curriculum. Overall, I rate this as an average textbook. Pros:- Each chapter ends with a concise summary.- Chapters are relatively short and not too bogged down

in details.- For an engineering textbook, the prose is very readable for the most part.- Lots of examples and illustrations.Cons:- Each chapter ends with exercises. However, there are no solutions (not even partial or hints). What good are exercises with no way of verifying that you understood correctly? I consider this a huge oversight.- The amount of detail is not equal between different subjects of similar importance. Some concepts are breezed through in just a few sentences while others receive much more focus than necessary.- The writing is not very clear at times. But as noted above, this is to be expected from an engineering textbook.I assume most people buying this book are buying it for a class. If you are considering buying this book just for fun, I would recommend against it. There are better free resources online.

I am presently using this text in an introductory (graduate level) course in systems engineering. I have been a practicing systems engineer for over 15 years, and I still find this text useful as a reference. I highly recommend this book both as a beginning graduate level text and a practical reference for the working systems engineering professional.

This is an excellent book on systems engineering. The text is clear and simple, and although the book is 2003 it is still updated. I recommend.

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