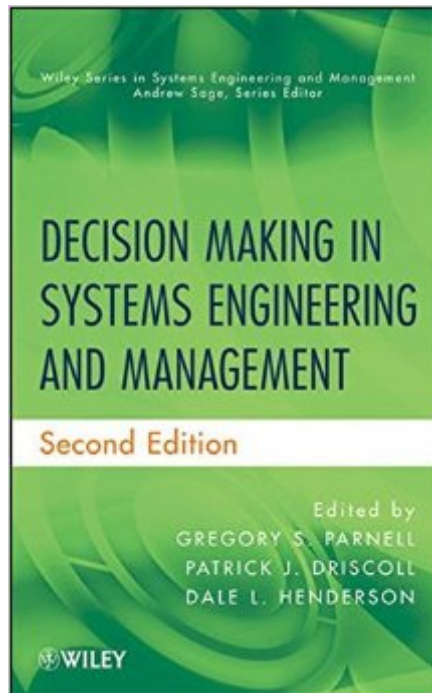


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Decision Making In Systems Engineering And Management



Synopsis

Decision Making in Systems Engineering and Management is a comprehensive textbook that provides a logical process and analytical techniques for fact-based decision making for the most challenging systems problems. Grounded in systems thinking and based on sound systems engineering principles, the systems decisions process (SDP) leverages multiple objective decision analysis, multiple attribute value theory, and value-focused thinking to define the problem, measure stakeholder value, design creative solutions, explore the decision trade off space in the presence of uncertainty, and structure successful solution implementation. In addition to classical systems engineering problems, this approach has been successfully applied to a wide range of challenges including personnel recruiting, retention, and management; strategic policy analysis; facilities design and management; resource allocation; information assurance; security systems design; and other settings whose structure can be conceptualized as a system.

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Customer Reviews

Disclosure statement: I was an instructor in West Point's Department of Systems Engineering while this book was being written & I own the previous (Spring 2007) edition of this book, not the current edition. That being said, the authors (all senior faculty members in the department) undertook this project because at the time, there were no undergraduate references that attempted to incorporate both hard and soft systems-thinking methodologies and concepts as they apply to decision-making and complex systems. I actually taught the first-year systems engineering design course using this

book & found it extremely useful. However, be forewarned -- while this textbook does contain references to traditional systems engineering approaches to generating requirements, system decomposition, and the like, this textbook does not have a focus on traditional systems engineering as it is taught in SE programs which have more of a computer/ electrical/ mechanical engineering flavor. In any event, I think this is a great reference for anyone seeking a methodology to solve complex problems using a systems-thinking approach.

While this is a great intro textbook for undergraduates, and possibly a good reference book for graduate students in Systems Engineering, don't be fooled by the title. There is only one chapter in this book on "Decision Making". Decision making in Systems Engineering is a "huge" topic and I was expecting a book with this title to cover a large part of it. Huge disappointment. Misleading title. If it was supposed to be a "intro" book on Systems Engineering, then fine, but call it that. The argument the authors bring up of there being no good general SYSE textbook is flawed, Introduction to Systems Engineering (Wiley Series in Systems Engineering and Management) is an excellent beginning text that is not outdated in methodology like this text. Even Making Hard Decisions: An Introduction to Decision Analysis (Business Statistics) has more on decision making than this text does. Basically this text suffers from a poor title and an identity crisis; is it a SYSE Decision Making Text or is it an Intro to SYSE text? The authors should choose one and build up on the kernel.

Albeit originally written for the SE department at West Point, this text does a good job filling in some of the holes that other more comprehensive texts (Blanchard and Fabrycky) contain. As someone relatively new to the formal discipline of SE who is working on a PhD, I like this book because it spends less time with fancy language and more time discussing how to execute an SE process. I also like this book because I'm in the military so it is written in a way that I'm used to. This reference rounds out my arsenal of SE texts that also contains Blanchard and Fabrycky and Buede. I'd recommend this book to people looking to gain a better understanding of the SE process and how to conduct it.

Correct book and arrived quickly.

Nice product! thanks, very fast delivery. STAR STAR STAR STAR STAR

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