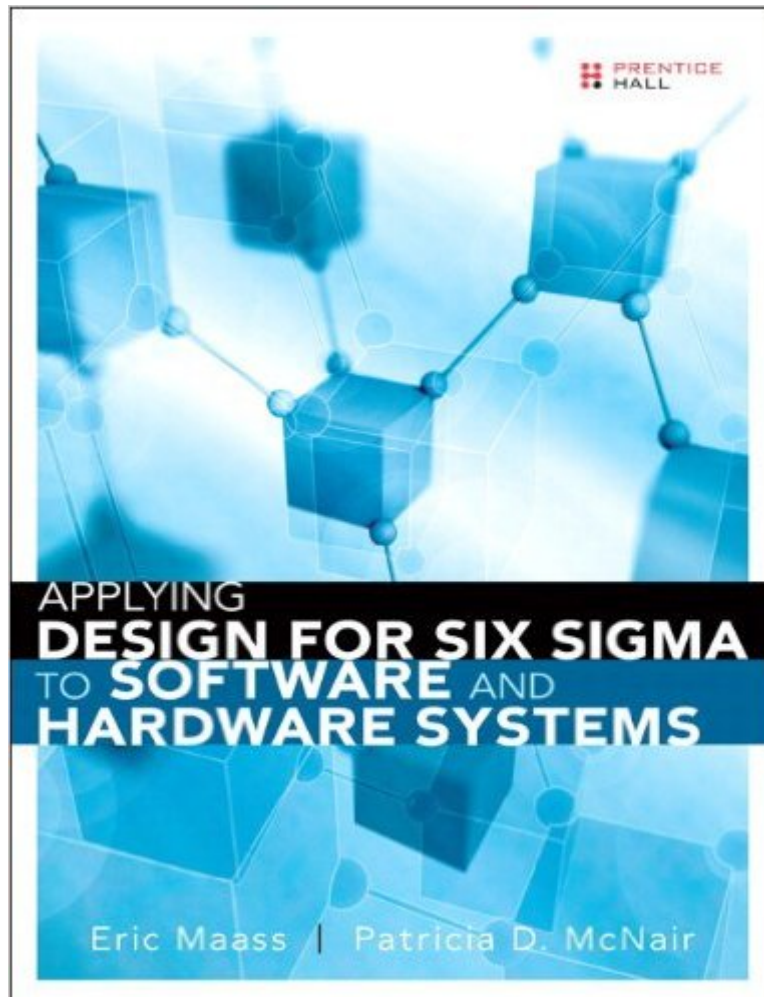


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# Applying Design For Six Sigma To Software And Hardware Systems (paperback)



## Synopsis

The Practical, Example-Rich Guide to Building Better Systems, Software, and Hardware with DFSS Design for Six Sigma (DFSS) offers engineers powerful opportunities to develop more successful systems, software, hardware, and processes. In *Applying Design for Six Sigma to Software and Hardware Systems*, two leading experts offer a realistic, step-by-step process for succeeding with DFSS. Their clear, start-to-finish roadmap is designed for successfully developing complex high-technology products and systems that require both software and hardware development. Drawing on their unsurpassed experience leading Six Sigma at Motorola, the authors cover the entire project lifecycle, from business case through scheduling, customer-driven requirements gathering through execution. They provide real-world examples for applying their techniques to software alone, hardware alone, and systems composed of both. Product developers will find proven job aids and specific guidance about what teams and team members need to do at every stage. Using this book's integrated, systems approach, marketers, software professionals, and hardware developers can converge all their efforts on what really matters: addressing the customer's true needs. Learn how to ensure that your entire team shares a solid understanding of customer needs. Define measurable critical parameters that reflect customer requirements. Thoroughly assess business case risk and opportunity in the context of product roadmaps and portfolios. Prioritize development decisions and scheduling in the face of resource constraints. Flow critical parameters down to quantifiable, verifiable requirements for every sub-process, subsystem, and component. Use predictive engineering and advanced optimization to build products that robustly handle variations in manufacturing and usage. Verify system capabilities and reliability based on pilots or early production samples. Master new statistical techniques for ensuring that supply chains deliver on time, with minimal inventory. Choose the right DFSS tools, using the authors' step-by-step flowchart. If you're an engineer involved in developing any new technology solution, this book will help you reflect the real Voice of the Customer, achieve better results faster, and eliminate fingerpointing. About the Web Site: The accompanying Web site, [sigmaexperts.com/dfss](http://sigmaexperts.com/dfss), provides an interactive DFSS flowchart, templates, exercises, examples, and tools.

## Book Information

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## Customer Reviews

I was tasked with helping create the curriculum for Design for Six Sigma in a large medical device company, who was an up and comer in Proprietary Delivery Systems. This book became my bible. I have never read anything as complete, detailed, and easy to follow. I spent two months pouring over just the Voice of Customer section. Dr. Maass takes seemingly impossible tasks and enables the reader to follow his logic and success. If you're in the business of designing a system for product development, whether it is software related or not, this book has everything you need. Dr. Maass takes the seemingly difficult task of identifying exactly what the customer is asking for and translating those needs into predictive engineering, leading to a highly successful product on the first try. If you've ever wondered how inventions become successful via engineering methods, this is the secret. Dr. Maass is the reason Medtronic is who they are, and how they've been able to dominate the market for so many years.

If your company is deploying a Design For Six Sigma program, then this book will become the most valuable item in your toolkit. The authors distil their "real world" experience implementing DFSS at Motorola. This resource is comprehensive - starting with pragmatic steps for addressing the resistance to change progressing through planning & including clear roadmaps for each DFSS project phase. Each technical chapter begins with an overview of the purpose of this deliverable in the DFSS roadmap, then provides instruction & examples. It is filled with flow charts, figures, diagrams and analysis results that will enable the reader to apply these techniques to product design & development. If you don't have 30 years of experience applying Six Sigma to design & manufacturing, then this is the next best thing.

Eric Maass has invested over 30 years with Motorola bringing new products to life. In this book he walks the reader through the systematic process. Great handbook for the beginner as well as the frequent user.

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