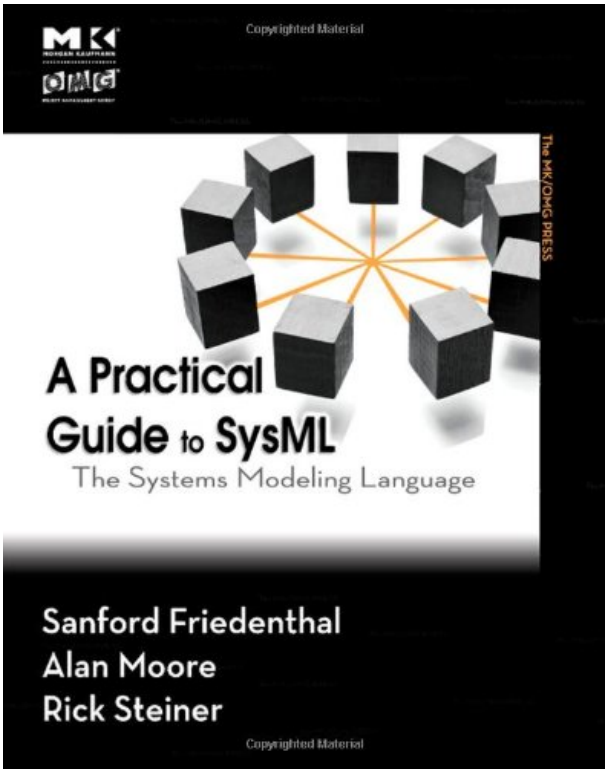
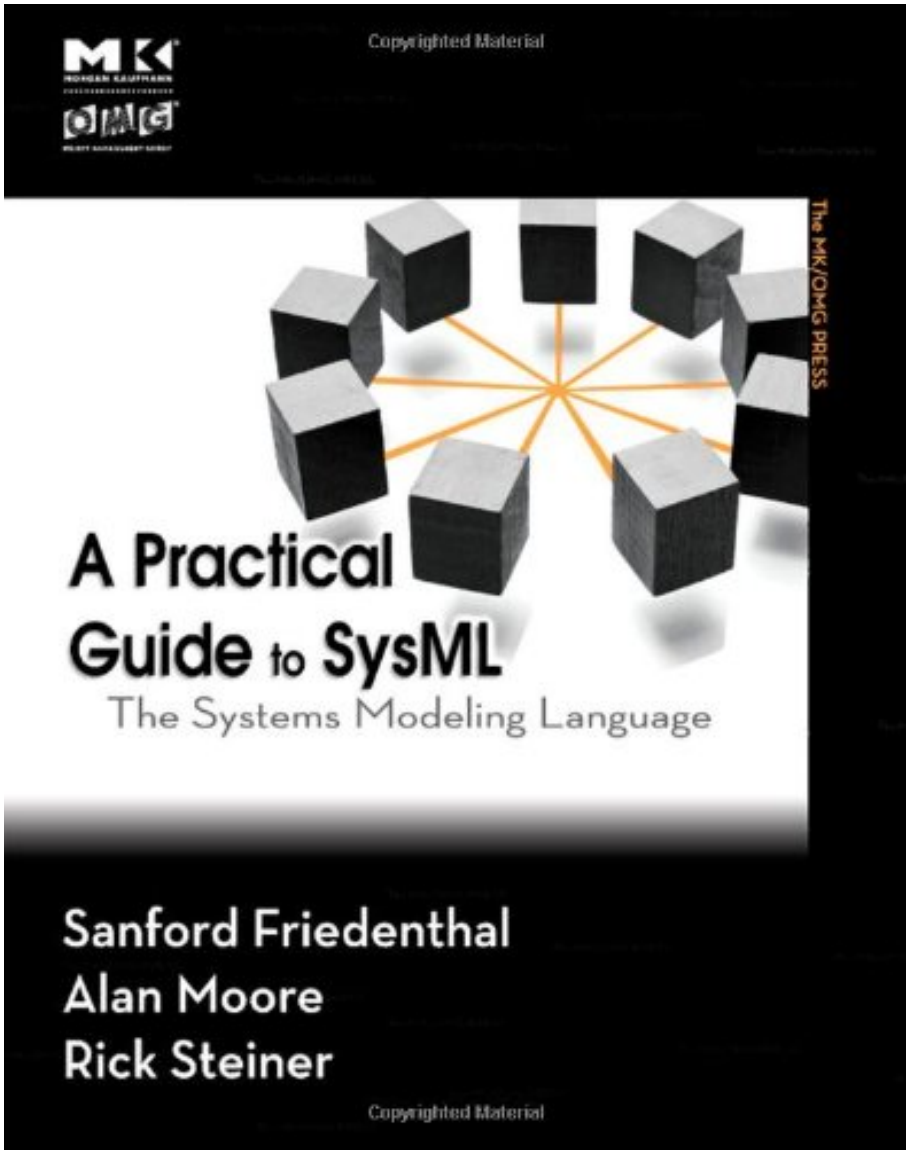
A PRACTICAL GUIDE TO SYSML: THE SYSTEMS MODELING LANGUAGE (THE MK/OMG PRESS) BY SANFORD FRIEDENTHAL, ALAN MOORE, RICK STEINER





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Review

"SysML is the new industry-standard language designed specifically to support modern systems engineering. I cannot imagine a better way to learn SysML than to read about it from the masters: Friedenthal, Moore, and Steiner led the design of this important new language and now cap that effort with this comprehensive and highly readable guide for both novices and experts." -Bran Selic, Malina Software Corporation

"This book is just the ticket you need to get started on the road to adopting standards-based, model-based systems engineering (MBSE) methods. The authors have done an outstanding job in providing detailed coverage of the SysML language and semantics supported through worked examples." -Jeff Estefan, Principal Engineer, NASA's Jet Propulsion Laboratory

"The authors of this book have been invovlded in SysML development since its inception, and have the understanding necessary to explain it clearly. In particular, the activity diagrams chapter accurately and concisely describes the SysML extensions to UML for functional flow modeling." - Conrad Bock, OMG Lead for Activity Modeling in SysML

From the Back Cover

Until now, little consolidated information has been available on the market regarding SysML. However, this book changes all that! It provides new users with a comprehensive guide to SysML, including a full description of the language itself and detailed instructions on how to implement it. Exercises help readers gain practical experience working with SysML and extensive, real-world examples of actual successful

projects demonstrate all the benefits the language can provide.

About the Author

Sanford Friedenthal is an MBSE Consultant. He has been an advocate for model-based systems engineering and a leader of the industry team that developed SysML from its inception through its adoption by the OMG.

Alan Moore is an Architecture Modeling Specialist at The MathWorks. He has extensive experience in the development of real-time and object-oriented methodologies and their application. Alan was co-chair of the OMG's Real-time Analysis and Design Working Group and served as the language architect during the development of SysML.

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Discover the key to improve the quality of life by reading this **A Practical Guide To SysML: The Systems Modeling Language (The MK/OMG Press) By Sanford Friedenthal, Alan Moore, Rick Steiner** This is a kind of publication that you require currently. Besides, it can be your preferred publication to read after having this book A Practical Guide To SysML: The Systems Modeling Language (The MK/OMG Press) By Sanford Friedenthal, Alan Moore, Rick Steiner Do you ask why? Well, A Practical Guide To SysML: The Systems Modeling Language (The MK/OMG Press) By Sanford Friedenthal, Alan Moore, Rick Steiner is a book that has various characteristic with others. You might not have to recognize who the author is, just how well-known the work is. As sensible word, never judge the words from that talks, but make the words as your inexpensive to your life.

This *A Practical Guide To SysML: The Systems Modeling Language (The MK/OMG Press) By Sanford Friedenthal, Alan Moore, Rick Steiner* is extremely appropriate for you as newbie reader. The visitors will always start their reading behavior with the favourite theme. They might not consider the writer and publisher that create the book. This is why, this book A Practical Guide To SysML: The Systems Modeling Language (The MK/OMG Press) By Sanford Friedenthal, Alan Moore, Rick Steiner is actually ideal to check out. However, the concept that is given in this book A Practical Guide To SysML: The Systems Modeling Language (The MK/OMG Press) By Sanford Friedenthal, Alan Moore, Rick Steiner will certainly show you several things. You can begin to enjoy likewise checking out up until completion of guide A Practical Guide To SysML: The Systems Modeling Language (The MK/OMG Press) By Sanford Friedenthal, Alan Moore, Rick Steiner.

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A Practical Guide to SysML: The Systems Modeling Language is a comprehensive guide to SysML for systems and software engineers. It provides an advanced and practical resource for modeling systems with SysML. The source describes the modeling language and offers information about employing SysML in transitioning an organization or project to model-based systems engineering. The book also presents various examples to help readers understand the OMG Systems Modeling Professional (OCSMP) Certification Program.
The text is organized into four parts. The first part provides an overview of systems engineering. It explains the model-based approach by comparing it with the document-based approach and providing the modeling principles. The overview of SYsML is also discussed. The second part of the book covers a comprehensive description of the language. It discusses the main concepts of model organization, parametrics, blocks, use cases, interactions, requirements, allocations, and profiles. The third part presents examples that illustrate how SysML supports different model-based procedures. The last part discusses how to transition and deploy SysML into an organization or project. It explains the integration of SysML into a systems development environment. Furthermore, it describes the category of data that are exchanged between a SysML tool and other types of tools, and the types of exchange mechanisms that can be used. It also covers the criteria that must be considered when selecting a SysML.
Software and systems engineers, programmers, IT practitioners, experts, and non-experts will find this book useful.

*The authoritative guide for understanding and applying SysML
*Authored by the foremost experts on the language
*Language description, examples, and quick reference guide included

- Sales Rank: #1139061 in Books
- Published on: 2009-09-03
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.18" w x 7.52" l, 2.24 pounds
- Binding: Paperback
- 576 pages

Review

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Most helpful customer reviews

4 of 4 people found the following review helpful.
Helpful book on a worthy subject
By Bob Savage

This was a well-written and informative book. I'm very comfortable with the UML, which has a large overlap with SysML, so the language was easy to pick up. This book was also a moderately entertaining read, in the sense that the examples used were uncommon, given my background in business computer systems; example systems included an automotive sub-system, a water distiller system, as well as surveillance and security systems. I can't even count the number of times I have read texts where the illustrative example was either an account (e.g. bank account) or retail system. Not only did these examples keep the presentation fresh, they really showed off the advantages of SysML.

My purpose in reading this book was essentially to learn what SysML was, why there was a need for it (when we already have UML), and, to a lesser extent, look at an example of a language defined via UML profile. From the Business Analyst perspective, what I found was surprisingly useful.

First, SysML doesn't bother to re-invent the UML. This is an advantage of defining a language by extension. A useful subset of UML is incorporated, mostly as is. To this, SysML adds some missing by essential properties and elements. For example SysML adds support for parametric modeling, so, with the proper tool support, simulations can validate that design options will satisfy constraints.

Most importantly (from a BA perspective), Requirements are added as first-class elements of the model. SysML adds notation for relationships to Requirements, such as containment, satisfaction, and verification. The SysML abstract syntax is as good a starting point for maintaining requirements traceability as I have seen.

This book will prove useful to many types of readers. Obviously those involved in traditional System Engineering projects (airplane design, weapons systems, etc.) will find this a valuable introduction/referance on SysML. Systems modeling is often widely applied, but in an ad hoc fashion, so I would also encourage those in various disciplines to check this book out; SysML could potentially foster cross-disciplinary understanding, but it certainly could inform readers from various systems sub-disciplines (Biology, Geology, Sociology, etc.) of best practices for modelers.

Finally I recommend this book to those within my own field of Business Analysis. Although UML is suficient for modeling many parts of the systems we analyze, it fails to capture some elements of our domain, most notably Requirements. I also have supplemented the UML in my own practice with Data Flow Diagrams (DFDs), especially for defining project scope (the context diagram). This book is the first that I have seen to present a credible alternative notation for this usage, the Internal Block Diagram.

3 of 3 people found the following review helpful.
A practical guide it is!
By Asad Quraishi
Unlike another book I was also using, this one truly is practical. SySML being a subset of UML, there aren't many books available on this subject. This one is clear, concise and easy to follow. I just wish I'd bought the Kindle version for portability.

1 of 2 people found the following review helpful.
Excellent reference, poor learning guide
By Misanthropicity
This book is the encyclopedia of SysML. It is an excellent reference if you already know what MBD/MBSE is about and what SysML is. That having been said, if you are looking to learn SysML, this book is not presented in a manner that is easily approachable or digestible to a novice who is not already practiced in the art.

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