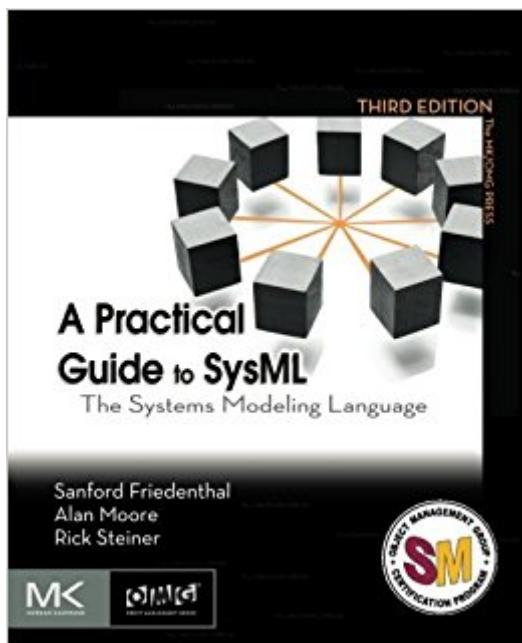


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# A Practical Guide To SysML, Third Edition: The Systems Modeling Language (The MK/OMG Press)



## Synopsis

A Practical Guide to SysML, Third Edition, fully updated for SysML version 1.4, provides a comprehensive and practical guide for modeling systems with SysML. With their unique perspective as leading contributors to the language, Friedenthal, Moore, and Steiner provide a full description of the language along with a quick reference guide and practical examples to help you use SysML. The book begins with guidance on the most commonly used features to help you get started quickly. Part 1 explains the benefits of a model-based approach, providing an overview of the language and how to apply SysML to model systems. Part 2 includes a comprehensive description of SysML that provides a detailed understanding that can serve as a foundation for modeling with SysML, and as a reference for practitioners. Part 3 includes methods for applying model-based systems engineering using SysML to specify and design systems, and how these methods can help manage complexity. Part 4 deals with topics related to transitioning MBSE practice into your organization, including integration of the system model with other engineering models, and strategies for adoption of MBSE. Learn how and why to deploy MBSE in your organization with an introduction to systems and model-based systems engineering. Use SysML to describe systems with this general overview and a detailed description of the Systems Modeling Language. Review practical examples of MBSE methodologies to understand their application to specifying and designing a system. Includes comprehensive modeling notation tables as an appendix that can be used as a standalone reference.

## Book Information

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## Customer Reviews

"The primary goal of this book is to introduce model-based engineering through SysML, a graphical systems modeling language that is being promoted as an alternative to the unified modeling language (UML) to address systems engineering." --Computing Reviews

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. Rick Steiner is an independent consultant focusing on pragmatic application of systems engineering modeling techniques. He culminated his 29 year career at Raytheon as an Engineering Fellow, Raytheon Certified Architect and INCOSE Expert Systems Engineering Professional (ESEP). Mr. Steiner has been an advocate, consultant, and instructor of model driven systems development for over 20 years. He has served as chief engineer, architect, or lead system modeler for several large scale electronics programs, incorporating the practical application of the OOSEM methodology and generation of Department of Defense Architecture Framework (DoDAF) artifacts from complex system models. Mr. Steiner has been a key contributor to both the original requirements for SysML and the development of SysML specification. While his main technical contribution has been in the area of allocations, requirements, and the sample problem, Mr. Steiner has also served as co-chair of the SysML Revision Task Force (RTF). He continues to provide frequent tutorials and workshops on SysML and model driven engineering topics at INCOSE events, NDIA conferences, and other corporate engagements.

Good coverage of the SysML modeling language with a couple of chapters on OOSEM. Lots of detailed examples to go with the theory. The layout is a bit tricky. The discussion and the diagrams can be separated by one or more pages which lead to some confusion and lot of page turning.

This is the foundational book for understanding SysML and MBSE. Between this book as a text and Delligatti's book (SysML Distilled) as a desk reference, you have all you need to succeed in this

field.

While the book is a great explanation of modeling, it's got some issues as a electronic book. Tables that show different diagram notations are tiny and can't be enlarged. The formatting is rather awkward and there is only the front of the book table of context rather than a kindle TOC like other textbooks I have ebooks for.

This book does contain all the necessary information to do SysML. One major complaint is on the organization and presentation with respect to the figures. Many, many times a figure is referenced which is 10, 20, or even 30 pages further into the book. Re-ordering the figures (which probably means re-configuring how each chapter handles a topic) would greatly enhance this book. I spend most of the time flipping pages to find the figure in question and it is mainly covering a topic which I have not gotten to yet.

It's Ok. Could have been more to the point on several occasions (compare a really short chapter to any longer one and it is evident). Would be great if the examples could be downloaded in HTML format or tool native format.

Good enough for the syllabus!

The standard for MBSE

Very hard to tell what this does or how it relates to real world application from this book. Strikes me as a very long learning curve

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