



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

By Sanford Friedenthal, Alan Moore, Rick Steiner



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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



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By Sanford Friedenthal, Alan Moore, Rick Steiner **Bibliography**

- Sales Rank: #362035 in Books
- Brand: imusti
- Published on: 2014-11-07
- Released on: 2014-10-24
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.42" w x 7.50" l, .0 pounds
- Binding: Paperback
- 630 pages

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