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

Sanford Friedenthal, Alan Moore, Rick Steiner

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A Practical Guide to SysML: The Systems Modeling Language is a comprehensive guide for understanding and applying SysML to model systems. The Object Management Group's OMG SysML is a general-purpose graphical modeling language for representing systems that may include combinations of hardware, software, data, people, facilities, and natural objects. SysML supports the practice of model-based systems engineering (MBSE) used to develop system solutions in response to complex and often technologically challenging problems.

The book is organized into four parts. Part I provides an overview of systems engineering, a summary of key MBSE concepts, a chapter on getting started with SysML, and a sample problem highlighting the basic features of SysML. Part II presents a detailed description of the SysML language, while Part III illustrates how SysML can support different model-based methods. Part IV discusses how to transition MBSE with SysML into an organization.

This book can serve as an introduction and reference for industry practitioners, and as a text for courses in systems modeling and model-based systems engineering. Because SysML reuses many Unified Modeling Language (UML) concepts, software engineers familiar with UML can use this information as a basis for understanding systems engineering concepts.

- Authoritative and comprehensive guide to understanding and implementing SysML
- A quick reference guide, including language descriptions and practical examples
- Application of model-based methodologies to solve complex system problems
- Guidance on transitioning to model-based systems engineering using SysML
- Preparation guide for OMG Certified Systems Modeling Professional (OCSMP)

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