Model-Based System Architecture (Wiley Series in Systems Engineering and Management)
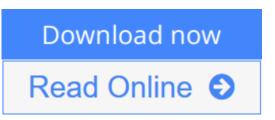
By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker

Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker

Presents modeling approaches that can be performed in SysML and other modeling languages

This book combines the emerging discipline of systems architecting with model-based approaches using SysML. The early chapters of the book provide the fundamentals of systems architecting; discussing what systems architecting entails and how it benefits systems engineering. Model-based systems engineering is then defined, and its capabilities to develop complex systems on time and in a feasible quality are discussed. The remainder of the book covers important topics such as: architecture descriptions; architecture patterns; perspectives, viewpoints, views and their relation to system architecture; the roles of a system architect, their team, and stakeholders; systems architecting processes; agile approaches to systems architecting; variant modeling techniques; architecture frameworks; and architecture assessment. The book's organization allows experts to read the chapters out of sequence. Novices can read the chapters sequentially to gain a systematic introduction to system architecting.

Model-Based System Architecture:

- Provides comprehensive coverage of the Functional Architecture for Systems (FAS) method created by the authors and based on common MBSE practices
- Covers architecture frameworks, including the System of Systems, Zachman Frameworks, TOGAF®, and more
- Includes a consistent example system, the "Virtual Museum Tour" system, that allows the authors to demonstrate the systems architecting concepts covered in the book

Model-Based System Architecture is a comprehensive reference for system architects and systems engineers in technology companies. This book will also serve as a reference to students and researchers interested in functional architectures.

Tim Weilkiens is the CEO at the German consultancy oose Innovative Informatik and co-author of the SysML specification. He has introduced model-based systems engineering to a variety of industry sectors. He is author of several books about modeling and the MBSE methodology SYSMOD.

Jesko G. Lamm is a Senior Systems Engineer at Bernafon, a Swiss manufacturer for hearing instruments. With Tim Weilkiens, Jesko G. Lamm founded the Functional Architectures working group of the German chapter of INCOSE.

Stephan Roth is a coach, consultant, and trainer for systems and software engineering at the German consultancy oose Innovative Informatik. He is a state-certified technical assistant for computer science from Physikalisch-Technische Lehranstalt (PTL) Wedel and a certified systems engineer (GfSE)®- Level C.

Markus Walker works at Schindler Elevator in the research and development division as elevator system architect. He is an INCOSE Certified Systems Engineering Professional (CSEP) and is engaged in the committee of the Swiss chapter of INCOSE.

Model-Based System Architecture (Wiley Series in Systems Engineering and Management)

By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker

Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker

Presents modeling approaches that can be performed in SysML and other modeling languages

This book combines the emerging discipline of systems architecting with model-based approaches using SysML. The early chapters of the book provide the fundamentals of systems architecting; discussing what systems architecting entails and how it benefits systems engineering. Model-based systems engineering is then defined, and its capabilities to develop complex systems on time and in a feasible quality are discussed. The remainder of the book covers important topics such as: architecture descriptions; architecture patterns; perspectives, viewpoints, views and their relation to system architecture; the roles of a system architect, their team, and stakeholders; systems architecting processes; agile approaches to systems architecting; variant modeling techniques; architecture frameworks; and architecture assessment. The book's organization allows experts to read the chapters out of sequence. Novices can read the chapters sequentially to gain a systematic introduction to system architecting.

Model-Based System Architecture:

- Provides comprehensive coverage of the Functional Architecture for Systems (FAS) method created by the authors and based on common MBSE practices
- Covers architecture frameworks, including the System of Systems, Zachman Frameworks, TOGAF®, and more
- Includes a consistent example system, the "Virtual Museum Tour" system, that allows the authors to demonstrate the systems architecting concepts covered in the book

Model-Based System Architecture is a comprehensive reference for system architects and systems engineers in technology companies. This book will also serve as a reference to students and researchers interested in functional architectures.

Tim Weilkiens is the CEO at the German consultancy oose Innovative Informatik and co-author of the SysML specification. He has introduced model-based systems engineering to a variety of industry sectors. He is author of several books about modeling and the MBSE methodology SYSMOD.

Jesko G. Lamm is a Senior Systems Engineer at Bernafon, a Swiss manufacturer for hearing instruments. With Tim Weilkiens, Jesko G. Lamm founded the Functional Architectures working group of the German chapter of INCOSE.

Stephan Roth is a coach, consultant, and trainer for systems and software engineering at the German consultancy oose Innovative Informatik. He is a state-certified technical assistant for computer science from Physikalisch-Technische Lehranstalt (PTL) Wedel and a certified systems engineer (GfSE)®- Level C.

Markus Walker works at Schindler Elevator in the research and development division as elevator system architect. He is an INCOSE Certified Systems Engineering Professional (CSEP) and is engaged in the

committee of the Swiss chapter of INCOSE.

Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker Bibliography

- Sales Rank: #1421393 in Books
- Published on: 2015-11-02
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x 1.10" w x 6.20" l, 1.50 pounds
- Binding: Hardcover
- 400 pages

Download and Read Free Online Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker

Editorial Review

From the Back Cover

Presents modeling approaches that can be performed in SysML and other modeling languages

This book combines the emerging discipline of systems architecting with model-based approaches using SysML. The early chapters of the book provide the fundamentals of systems architecting; discussing what systems architecting entails and how it benefits systems engineering. Model-based systems engineering is then defined, and its capabilities to develop complex systems on time and in a feasible quality are discussed. The remainder of the book covers important topics such as: architecture descriptions; architecture patterns; perspectives, viewpoints, views and their relation to system architecture; the roles of a system architect, their team, and stakeholders; systems architecting processes; agile approaches to systems architecting; variant modeling techniques; architecture frameworks; and architecture assessment. The book's organization allows experts to read the chapters out of sequence. Novices can read the chapters sequentially to gain a systematic introduction to system architecting.

Model-Based System Architecture:

- Provides comprehensive coverage of the Functional Architecture for Systems (FAS) method created by the authors and based on common MBSE practices
- Covers architecture frameworks, including the System of Systems, Zachman Frameworks, TOGAF®, and more
- Includes a consistent example system, the "Virtual Museum Tour" system, that allows the authors to demonstrate the systems architecting concepts covered in the book

Model-Based System Architecture is a comprehensive reference for system architects and systems engineers in technology companies. This book will also serve as a reference to students and researchers interested in functional architectures.

Tim Weilkiens is the CEO at the German consultancy oose Innovative Informatik and co-author of the SysML specification. He has introduced model-based systems engineering to a variety of industry sectors. He is author of several books about modeling and the MBSE methodology SYSMOD.

Jesko G. Lamm is a Senior Systems Engineer at Bernafon, a Swiss manufacturer for hearing instruments. With Tim Weilkiens, Jesko G. Lamm founded the Functional Architectures working group of the German chapter of INCOSE.

Stephan Roth is a coach, consultant, and trainer for systems and software engineering at the German consultancy oose Innovative Informatik. He is a state-certified technical assistant for computer science from Physikalisch-Technische Lehranstalt (PTL) Wedel and a certified systems engineer (GfSE)®- Level C.

Markus Walker works at Schindler Elevator in the research and development division as elevator system architect. He is an INCOSE Certified Systems Engineering Professional (CSEP) and is engaged in the committee of the Swiss chapter of INCOSE.

Users Review

From reader reviews:

Lewis Lin:

Book will be written, printed, or descriptive for everything. You can recognize everything you want by a book. Book has a different type. As you may know that book is important matter to bring us around the world. Adjacent to that you can your reading skill was fluently. A publication Model-Based System Architecture (Wiley Series in Systems Engineering and Management) will make you to end up being smarter. You can feel far more confidence if you can know about every thing. But some of you think that will open or reading a new book make you bored. It's not make you fun. Why they are often thought like that? Have you searching for best book or appropriate book with you?

Maureen Perdue:

Nowadays reading books are more than want or need but also be a life style. This reading routine give you lot of advantages. Associate programs you got of course the knowledge the actual information inside the book in which improve your knowledge and information. The data you get based on what kind of publication you read, if you want drive more knowledge just go with schooling books but if you want really feel happy read one having theme for entertaining for instance comic or novel. The actual Model-Based System Architecture (Wiley Series in Systems Engineering and Management) is kind of guide which is giving the reader unpredictable experience.

Bobby Miller:

Your reading 6th sense will not betray anyone, why because this Model-Based System Architecture (Wiley Series in Systems Engineering and Management) guide written by well-known writer who knows well how to make book that may be understand by anyone who else read the book. Written throughout good manner for you, dripping every ideas and publishing skill only for eliminate your current hunger then you still question Model-Based System Architecture (Wiley Series in Systems Engineering and Management) as good book not merely by the cover but also through the content. This is one guide that can break don't determine book by its protect, so do you still needing another sixth sense to pick this specific!? Oh come on your studying sixth sense already told you so why you have to listening to another sixth sense.

Sonia Cote:

You could spend your free time to learn this book this guide. This Model-Based System Architecture (Wiley Series in Systems Engineering and Management) is simple to deliver you can read it in the playground, in the beach, train in addition to soon. If you did not possess much space to bring the particular printed book, you can buy the e-book. It is make you much easier to read it. You can save often the book in your smart phone. So there are a lot of benefits that you will get when you buy this book.

Download and Read Online Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker #715BKQJ9RL6

Read Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker for online ebook

Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker books to read online.

Online Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker ebook PDF download

Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker Doc

Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker Mobipocket

Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker EPub

715BKQJ9RL6: Model-Based System Architecture (Wiley Series in Systems Engineering and Management) By Tim Weilkiens, Jesko G. Lamm, Stephan Roth, Markus Walker