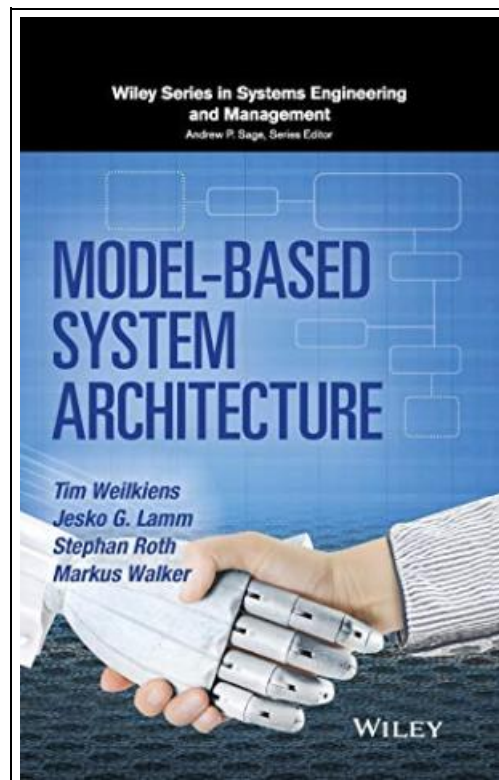# Model-Based System Architecture (Hardback)

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## Reviews

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# MODEL-BASED SYSTEM ARCHITECTURE (HARDBACK)

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John Wiley & Sons Inc, United States, 2015. Hardback. Condition: New. Language: English. Brand new Book. 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(R), 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...

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