



The Art of Systems Architecting, Third Edition (Systems Engineering)

By Mark W. Maier

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If engineering is the art and science of technical problem solving, systems architecting happens when you don't yet know what the problem is. The third edition of a highly respected bestseller, **The Art of Systems Architecting** provides in-depth coverage of the least understood part of systems design: moving from a vague concept and limited resources to a satisfactory and feasible system concept and an executable program. The book provides a practical, heuristic approach to the "art" of systems architecting. It provides methods for embracing, and then taming, the growing complexity of modern systems.

New in the Third Edition:

- Five major case studies illustrating successful and unsuccessful practices
- Information on architecture frameworks as standards for architecture descriptions
- New methods for integrating business strategy and architecture and the role of architecture as the technical embodiment of strategy
- Integration of process guidance for organizing and managing architecture projects
- Updates to the rapidly changing fields of software and systems-of-systems architecture
- Organization of heuristics around a simple and practical process model

A Practical Heuristic Approach to the Art of Systems Architecting

Extensively rewritten to reflect the latest developments, the text explains how to create a system from scratch, presenting invention/design rules together with

clear explanations of how to use them. The author supplies practical guidelines for avoiding common systematic failures while implementing new mandates. He uses a heuristics-based approach that provides an organized attack on very ill-structured engineering problems. Examining architecture as more than a set of diagrams and documents, but as a set of decisions that either drive a system to success or doom it to failure, the book provide methods for integrating business strategy with technical architectural decision making.

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Bibliography

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Editorial Review

Review

...The only way to develop this skill is to serve an apprenticeship with a proven practitioner. However, there are simply not enough gurus to go around, and I would recommend this book both for students of the discipline and as serious reading for experienced designers who wish to recognize and maintain their expertise.

-E. James in Computing Millieux

About the Author

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Joann Hamilton:

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Arlene Farrar:

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