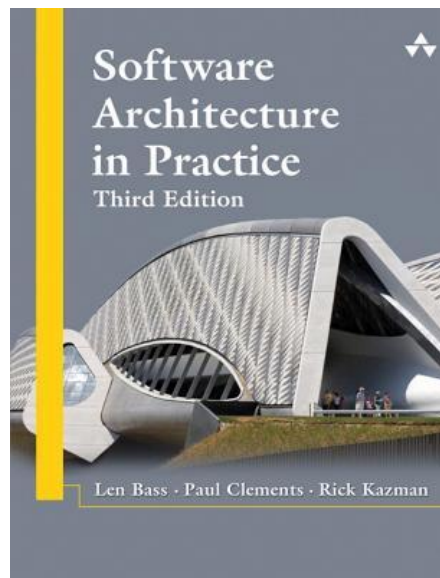




Software Architecture in Practice

Len Bass , Paul Clements , Rick Kazman

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This award-winning book, substantially updated to reflect the latest developments in the field, introduces the concepts and best practices of software architecture—how a software system is structured and how that system's elements are meant to interact. Distinct from the details of implementation, algorithm, and data representation, an architecture holds the key to achieving system quality, is a reusable asset that can be applied to subsequent systems, and is crucial to a software organization's business strategy.

Drawing on their own extensive experience, the authors cover the essential technical topics for designing, specifying, and validating a system. They also emphasize the importance of the business context in which large systems are designed. Their aim is to present software architecture in a real-world setting, reflecting both the opportunities and constraints that companies encounter. To that end, case studies that describe successful architectures illustrate key points of both technical and organizational discussions.

Topics new to this edition include:

Architecture design and analysis, including the Architecture Tradeoff Analysis Method (ATAM) Capturing quality requirements and achieving them through quality scenarios and tactics Using architecture reconstruction to recover undocumented architectures Documenting architectures using the Unified Modeling Language (UML) New case studies, including Web-based examples and a wireless Enterprise JavaBeans™ (EJB) system designed to support wearable computers The financial aspects of architectures, including use of the Cost Benefit Analysis Method (CBAM) to make decisions

If you design, develop, or manage the building of large software systems (or plan to do so), or if you are interested in acquiring such systems for your corporation or government agency, use *Software Architecture in Practice, Second Edition*, to get up to speed on the current state of software architecture.

Software Architecture in Practice Details

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From Reader Review Software Architecture in Practice for online ebook

Ash says

good

André says

Techniken zur Erhebung und Realisierung qualitativer Anforderungen wie Verfügbarkeit, Sicherheit, Performanz usw. (Zur Skalierbarkeit sind die AKF-Bücher besser). Nennt Methoden zur Architekturanalyse und -dokumentation sowie interessante Fallstudien, z.B. das A-7E Avionics System oder ein System zur Flugverkehrskontrolle.

Matt Hartzell says

It took far, far, FAR too long to read this. Don't let that speak to the quality of the text. I'm just too busy. :)

This is probably the best formal book you can read on architecture. If you are an architect, or want to be an architect, this had better be on your shelf.

Reza says

Read this from cover to cover. It wasn't and easy read but I expected more from it. Is is so IEEE focused and a bit outdated in some aspects.

Evan Hoff says

Overall, I would highly recommend this book to developers who have honed their OO design skills and are looking to expand their horizons. This book sticks to fundamentals and covers quite a bit of breadth. I will warn you though, it's quite thick (almost 500 pages) and can be dense in spots.

You can read my full review here:

http://www.lostechies.com/blogs/evan_...

Eoin Cos says

Absolutely incredible book on the soft and hard skills of being an architect. It goes into the different roles a software architect will have and gives thoroughly comprehensive advice. This is a great book on anyone

wondering what it is a software architect does and gives a great starting point for anyone interested.

Bob says

A solid introduction to the discipline of software engineering. I have half a dozen more books in hand or wishlisted and a folder full of academic papers and standards to read thanks to the great resources recommended "for further reading" at the end of each chapter. I'm itching to put things into practice.

Kai Weber says

Knowledge on software architecture is probably much less common than knowledge on software analysis and design. The three authors of this book have spent their life teaching software architecture and convincing people of the benefits and importance of architecture. So, there's a little bit of a missionary undertone at work here. But if you as a reader can cope with that, it's an interesting book, presenting a wide overview of aspects where software architecture integrates with other IT and business disciplines. At the core there's a discussion of quality attributes, like availability, interoperability, modifiability, performance, security, etc. Architectural measures to achieve those attributes are presented in a systematic fashion.

The book is introductory and general in nature, so it is a good start for students or programmers who want to learn to respect their architect.

TK Keanini says

great text on the process of architecture.

Ha Truong says

The book introduces many aspects of an architecture and responsibilities of an architect. There are many things I haven't known before. But all the knowledge is at the level of fundamental and kinda overview, so you have to read it along with other specific books.

If I could rewrite the title, I would put it as "Introduction to Software Architecture" because everything looks like theory lessons in school, not practical. The writing is kinda daunting: lengthy, jargon and duplication.

Dstuffle says

This was a required textbook for a certification (software architecture) course I was taking. My one really big frustration was that one of the tests had questions that required the use of charts on this book's back cover, which the e-book format version did not have.

Was far heavier on the how to gather user requirements than how to determine which design pattern will fit the user's requirements than I was expecting.

Overall, It was a good book for the course.
