Software & Systems Requirements Engineering: In Practice

Brian Berenbach, Daniel Paulish, Juergen Kazmeier, Arnold Rudorfer

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Proven Software & Systems Requirements Engineering Techniques

"Requirements engineering is a discipline used primarily for large and complex applications. It is more formal than normal methods of gathering requirements, and this formality is needed for many large applications. The authors are experienced requirements engineers, and this book is a good compendium of sound advice based on practical experience." --Capers Jones, Chief Scientist Emeritus, Software Productivity Research

Deliver feature-rich products faster, cheaper, and more reliably using state-of-the-art SSRE methods and modeling procedures. Written by global experts, *Software & Systems Requirements Engineering: In Practice* explains how to effectively manage project objectives and user needs across the entire development lifecycle. Gather functional and quality attribute requirements, work with models, perform system tests, and verify compliance. You will also learn how to mitigate risks, avoid requirements creep, and sidestep the pitfalls associated with large, complex projects.

- Define and prioritize customer expectations using taxonomies
- Elicit and analyze functional and quality attribute requirements
- Develop artifact models, meta-models, and prototypes
- Manage platform and product line development requirements
- Derive and generate test cases from UML activity diagrams
- Deploy validation, verification, and rapid development procedures
- Handle RE for globally distributed software and system development projects
- Perform hazard analysis, risk assessment, and threat modeling

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