Requirements Engineering: From System Goals to UML Models to Software Specifications

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Essential comprehensive coverage of the fundamentals of requirements engineering

Requirements engineering (RE) deals with the variety of prerequisites that must be met by a software system within an organization in order for that system to produce stellar results. With that explanation in mind, this must-have book presents a disciplined approach to the engineering of high-quality requirements. Serving as a helpful introduction to the fundamental concepts and principles of requirements engineering, this guide offers a comprehensive review of the aim, scope, and role of requirements engineering as well as best practices and flaws to avoid.

- Shares state-of-the-art techniques for domain analysis, requirements elicitation, risk analysis, conflict management, and more
- Features in-depth treatment of system modeling in the specific context of engineering requirements
- Presents various forms of reasoning about models for requirements quality assurance
- Discusses the transitions from requirements to software specifications to software architecture

In addition, case studies are included that complement the many examples provided in the book in order to show you how the described method and techniques are applied in practical situations.

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