



Requirements Engineering for Software and Systems, Second Edition (Applied Software Engineering Series)

Phillip A. Laplante

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As requirements engineering continues to be recognized as the key to on-time and on-budget delivery of software and systems projects, many engineering programs have made requirements engineering mandatory in their curriculum. In addition, the wealth of new software tools that have recently emerged is empowering practicing engineers to improve their requirements engineering habits. However, these tools are not easy to use without appropriate training.

Filling this need, **Requirements Engineering for Software and Systems, Second Edition** has been vastly updated and expanded to include about 30 percent new material. In addition to new exercises and updated references in every chapter, this edition updates all chapters with the latest applied research and industry practices. It also presents new material derived from the experiences of professors who have used the text in their classrooms. Improvements to this edition include:

- An expanded introductory chapter with extensive discussions on requirements analysis, agreement, and consolidation
- An expanded chapter on requirements engineering for Agile methodologies
- An expanded chapter on formal methods with new examples
- An expanded section on requirements traceability
- An updated and expanded section on requirements engineering tools
- New exercises including ones suitable for research projects

Following in the footsteps of its bestselling predecessor, the text illustrates key ideas associated with requirements engineering using extensive case studies and three common example systems: an airline baggage handling system, a point-of-sale system for a large pet store chain, and a system for a smart home. This edition also includes an example of a wet well pumping system for a wastewater treatment station.

With a focus on software-intensive systems, but highly applicable to non-software systems, this text provides a probing and comprehensive review of recent developments in requirements engineering in high integrity systems.

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