Requirements Engineering: Fundamentals, Principles, and Techniques

By Klaus Pohl

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Requirements engineering is the process of eliciting individual stakeholder requirements and needs and developing them into detailed, agreed requirements documented and specified in such a way that they can serve as the basis for all other system development activities. In this textbook, Klaus Pohl provides a comprehensive and well-structured introduction to the fundamentals, principles, and techniques of requirements engineering. He presents approved techniques for eliciting, negotiating and documenting as well as validating, and managing requirements for software-intensive systems. The various aspects of the process and the techniques are illustrated using numerous examples based on his extensive teaching experience and his work in industrial collaborations. His presentation aims at professionals, students, and lecturers in systems and software engineering or business applications development. Professionals such as project managers, software architects, systems analysts, and software engineers will benefit in their daily work from the didactically well-presented combination of validated procedures and industrial experience. Students and lecturers will appreciate the comprehensive description of sound fundamentals, principles, and techniques, which is completed by a huge commented list of references for further reading. Lecturers will find additional teaching material on the book's website, www.requirements-book.com.

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"[...] Pohl succeeds in providing "a comprehensive, well-structured, and easy-to-read ... compendium" on the field of requirements engineering where such did not exist previously. It serves as an excellent reference volume [...]. The layout, visuals, and organization of the book are exceptional. [...] Students, practitioners, and researchers with an interest in requirements engineering for software and systems engineering should consider adding this unique book to their library." ACM Computing Reviews, Michael G. Murphy, Southern Polytechnic State University, Marietta, GA, USA, January 2011

"800-page volume divided into eight parts and 38 chapters. Pohl went to great lengths in organizing the book, and has been successful in providing a clean, comprehensive, and well-structured work. ... Each part provides collections of basic and advanced reading lists for the individual chapters. The book concludes with a very helpful glossary of terms, a comprehensive collection of references, and a well-organized index. Summing Up: Highly recommended. Upper-division undergraduate through professional collections." J. Beidler, Choice, Vol. 48 (6), February 2011

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