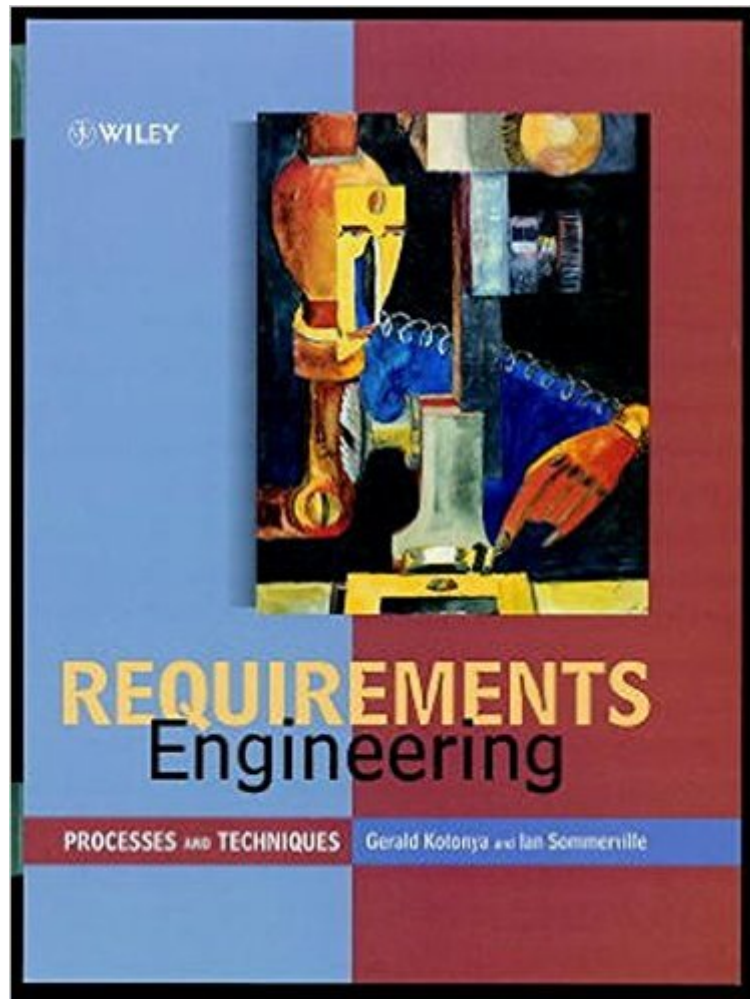


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# Requirements Engineering: Processes And Techniques



## Synopsis

**Requirements Engineering Processes and Techniques** Why this book was written The value of introducing requirements engineering to trainee software engineers is to equip them for the real world of software and systems development. What is involved in Requirements Engineering? As a discipline, newly emerging from software engineering, there are a range of views on where requirements engineering starts and finishes and what it should encompass. This book offers the most comprehensive coverage of the requirements engineering process to date - from initial requirements elicitation through to requirements validation. How and Which methods and techniques should you use? As there is no one catch-all technique applicable to all types of system, requirements engineers need to know about a range of different techniques. Tried and tested techniques such as data-flow and object-oriented models are covered as well as some promising new ones. They are all based on real systems descriptions to demonstrate the applicability of the approach. Who should read it? Principally written for senior undergraduate and graduate students studying computer science, software engineering or systems engineering, this text will also be helpful for those in industry new to requirements engineering. Accompanying Website: <http://www.comp.lancs.ac.uk/computing/resources/re> Visit our Website: <http://www.wiley.com/college/wws>

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## Customer Reviews

This book is broken down into requirements processes and techniques, which makes an ideal

reference for companies that are implementing requirements engineering, for consultants who are developing and implementing requirements processes and procedures for clients, and for individuals who are seeking to improve their professional skills. I like the way this book starts with a frequently asked questions (FAQ) about requirements. In my experience requirements and the processes and techniques that are associated with eliciting and analyzing them are not clearly understood. Too often requirements spill into design, and this part of the book will show you what a requirement is and what it is not. The requirements process models covered in this book are complete, and serve as a complete life cycle of a requirement from elicitation to analysis, validation and management. Some strong points about this approach include the need to test requirements, as well as to manage changes as they are refined. Moreover, the authors' approach to constantly assuring traceability is a mature practice and the key, in my opinion, to effective requirements management. Part two of this book covers the requirements engineering techniques that are the "moving parts" of the processes. Some are outdated or cumbersome, such as Structured Analysis and Design Technique (SADT), while others are interesting, such as Viewpoint-oriented System Engineering (VOSE). Some highlights of this part of the book include: definition of non-functional requirements (another grossly misunderstood aspect of requirements management), interactive system specification approaches and transitioning to object-oriented design. I also found the case study at the end of the book both useful and interesting.

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