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| Record Nr. | UNINA9910830337703321 |
| Autore | Bernstein Lawrence <1940-> |
| Titolo | Trustworthy systems through quantitative software engineering / / Lawrence Bernstein, Christine M. Yuhas |
| Pubbl/distr/stampa | Hoboken, New Jersey : , : Wiley, , c2005<br>[Piscataqay, New Jersey] : , : IEEE Xplore, , [2005] |
| ISBN | 1-280-27834-X<br>9786610278343<br>0-470-32416-3<br>0-471-75033-6<br>0-471-75032-8 |
| Descrizione fisica | 1 online resource (465 p.) |
| Collana | Quantitative software engineering series ; ; 1 |
| Altri autori (Persone) | YuhasC. M |
| Disciplina | 005.1 |
| Soggetti | Software engineering<br>Computer software - Reliability |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Think like an engineer, especially for software -- People, process, product, project : the big four -- Software requirements -- Prototyping -- Architecture -- Estimation, planning and investment -- Design for trustworthiness -- Identifying and managing risk -- Human factors in software engineering -- Implementation details -- Testing, manufacturing and configuration management -- The final project : by students, for students. |
| Sommario/riassunto | A benchmark text on software development and quantitative software engineering"We all trust software. All too frequently, this trust is misplaced. Larry Bernstein has created and applied quantitative techniques to develop trustworthy software systems. He and C. M. Yuhas have organized this quantitative experience into a book of great value to make software trustworthy for all of us."-Barry Boehm Trustworthy Systems Through Quantitative Software Engineering proposes a novel, reliability-driven software engineering approach, and discusses human factors in software engineering and how these affect team dynamics. This practical approach gives software engineering |

students and professionals a solid foundation in problem analysis, allowing them to meet customers' changing needs by tailoring their projects to meet specific challenges, and complete projects on schedule and within budget. Specifically, it helps developers identify customer requirements, develop software designs, manage a software development team, and evaluate software products to customer specifications. Students learn "magic numbers of software engineering," rules of thumb that show how to simplify architecture, design, and implementation. Case histories and exercises clearly present successful software engineers' experiences and illustrate potential problems, results, and trade-offs. Also featuring an accompanying Web site with additional and related material, Trustworthy Systems Through Quantitative Software Engineering is a hands-on, project-oriented resource for upper-level software and computer science students, engineers, professional developers, managers, and professionals involved in software engineering projects.