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| Nota di bibliografia | Includes bibliographical references (p. [267]-300) and indexes. |
| Nota di contenuto | to Dependability Metrics -- to Dependability Metrics -- I Foundations -- On Metrics and Measurements -- Validation of Predictions with Measurements -- Consistent Metric Usage: From Design to Deployment -- Basic and Dependent Metrics -- Goal, Question, Metric -- Quality of Service Modeling Language -- Markov Models -- II Reliability Metrics -- Hardware Reliability -- Software Reliability -- III Security Metrics -- to Security Metrics -- Cryptographic Attack Metrics -- Security Measurements and Metrics for Networks -- Industrial Approaches and Standards for Security Assessment -- Economic Security Metrics -- Human Factors -- IV Performance Metrics -- to Performance Metrics -- Performance-Related Metrics in the ISO 9126 Standard -- Analytical Performance Metrics -- Performance Metrics in Software Design Models -- Measuring Performance Metrics: Techniques and Tools -- Performance Metrics for Specific Domains -- V Overlapping Metrics -- to Overlapping Attributes -- Performability -- Reliability vs. Security: A Subjective Overview. |
| Sommario/riassunto | With the growing ubiquity of computing systems, it is essential that we can rely on the services they deliver. Justifying reliance in computer systems requires scientific techniques to derive evidence from given systems or predict such evidence. This tutorial book gives an overview |

of the current state of the art in measuring the different aspects of dependability of systems: reliability, security and performance. The main impulse for this dependability metrics project resulted from a research seminar, held at Schloss Dagstuhl, Germany, in October/November 2005. The 25 chapters, based on the outcome of the research seminar, are organized in five parts on foundations, reliability metrics, security metrics, performance metrics, and overlapping metrics. The final part shows that only a combined consideration of important dependability attributes will lead to the design objective: the development of systems we can really trust.
