



Trustworthy Computing: Analytical and Quantitative Engineering Evaluation

M. Sahinoglu

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C. V. Ramamoorthy Professor Emeritus, Electrical Engineering and Computer Science, University of California-Berkeley, and Senior Research Fellow, ICC Institute, The University of Texas-Austin, IEEE Life Fellow Trustworthy Computing: Analytical and Quantitative Engineering Evaluation presents an index-based, quantitative approach to advances in reliability and security engineering. Objective, metric-oriented, and data-driven, its goal is to establish metrics to quantify risk and mitigate risk through risk management. Based on the author's class-tested curriculum, it covers: Fundamentals of component and system reliability and a review of software reliability Software reliability modeling using effort-based and clustered failure data and stochastic comparative measures Quantitative modeling for security and privacy risk assessment Cost-effective stopping rules in software reliability testing Availability modeling using Sahinoglu-Libby (S-L) Probability Distribution Reliability block diagramming for Simple and Complex Embedded Systems Complete with a CD-ROM containing case histories and projects that give readers hands-on experience, this is a great text for students in courses on security, reliability, and trustworthiness, as well as a reference for practicing software designers and developers, computer reliability and security specialists, and network administrators who work with data.

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