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	Collana	Springer Series in Reliability Engineering, , 2196-999X
	Disciplina	658.5
	Soggetti	Engineering economics
		Engineering economy
		System safety
		Statistics
		Industrial engineering
		Production engineering
		Computer hardware
		Mathematical statistics
		Engineering Economics, Organization, Logistics, Marketing
		Security Science and Technology
		Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences
		Industrial and Production Engineering
		Computer Hardware
		Probability and Statistics in Computer Science
		Electronic books.
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	Nota di contenuto	Probability, Statistics, and Reliability Concepts -- Distribution Functions and Its Applications -- Statistical Parameter Estimation -- System Reliability Modeling -- Order Statistics and Reliability Estimation -- Stochastic Processes -- Maintenance Modeling -- Software Reliability -- Statistical Machine Learning Methods and Its Applications.
	Sommario/riassunto	This book presents the state-of-the-art methodology and detailed

analytical models and methods used to assess the reliability of complex systems and related applications in statistical reliability engineering. It is a textbook based mainly on the author's recent research and publications as well as experience of over 30 years in this field. The book covers a wide range of methods and models in reliability, and their applications, including: statistical methods and model selection for machine learning; models for maintenance and software reliability; statistical reliability estimation of complex systems; and statistical reliability analysis of k out of n systems, standby systems and repairable systems. Offering numerous examples and solved problems within each chapter, this comprehensive text provides an introduction to reliability engineering graduate students, a reference for data scientists and reliability engineers, and a thorough guide for researchers and instructors in the field.