

1. Record Nr.	UNINA9910810616303321
Titolo	Stochastic reliability modeling, optimization and applications // editors, Syouji Nakamura, Toshio Nakagawa
Pubbl/distr/stampa	Singapore ; ; Hackensack, NJ, : World Scientific, c2010
ISBN	1-282-75827-6 9786612758270 981-4277-44-4
Edizione	[1st ed.]
Descrizione fisica	xvi, 300 p. : ill
Altri autori (Persone)	NakamuraSyouji NakagawaToshio <1942->
Disciplina	620/.00452
Soggetti	Reliability (Engineering) - Mathematical models Stochastic systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Multistate coherent systems / Fumio Ohi -- 2. Cumulative damage models / Takashi Satow -- 3. Extended inspection models / Satoshi Mizutani -- 4. Stochastic analyses for hybrid state saving and its experimental validation / Mamoru Ohara, Masayuki Arai and Satoshi Fukumoto -- 5. Reliability analysis of a system connected with networks / Mitsuhiro Imaizumi -- 6. Reliability analysis of communication systems / Mitsutaka Kimura -- 7. Backup policies for a database system / Cun-Hua Qian -- 8. Optimal checkpoint intervals for computer systems / Kenichiro Naruse and Sayori Maeji -- 9. Maintenance models of miscellaneous systems / Kodo Ito -- 10. Management policies for stochastic models with monetary facilities / Syouji Nakamura.
Sommario/riassunto	Aims to survey research topics in reliability theory and useful applied techniques in reliability engineering. This book focuses on how to apply the results of reliability theory to practical models. Theoretical results of coherent, inspection, and damage systems are summarized methodically, using the techniques of stochastic processes.