1.	Record Nr.	UNINA9910366598003321
	Autore	Gertsbakh Ilya
	Titolo	Network Reliability : A Lecture Course / / by Ilya Gertsbakh, Yoseph Shpungin
	Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
	ISBN	981-15-1458-5
	Edizione	[1st ed. 2020.]
	Descrizione fisica	1 online resource (IX, 90 p. 48 illus., 27 illus. in color.)
	Collana	SpringerBriefs in Electrical and Computer Engineering, , 2191-8112
	Disciplina	621.382
	Soggetti	Electrical engineering
		Statistics
		Mathematical statistics
		Communications Engineering, Networks
		Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences
		Probability and Statistics in Computer Science
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	1 Probability and Statistics: a short reminder -- 2 The concept of network -- 3 Network Static and Dynamic Reliability -- 4 Monte Carlo method for evaluating network reliability -- 5 Lomonosov's "Turnip" for Network Reliability evaluation.
	Sommario/riassunto	This introductory book equips the reader to apply the core concepts and methods of network reliability analysis to real-life problems. It explains the modeling and critical analysis of systems and probabilistic networks, and requires only a minimal background in probability theory and computer programming. Based on the lecture notes of eight courses taught by the authors, the book is also self-contained, with no theory needed beyond the lectures. The primary focus is on essential "modus operandi," which are illustrated in numerous examples and presented separately from the more difficult theoretical material.