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Titolo	Reliability Engineering // by Youchao Sun, Longbiao Li, Dmytro Tiniakov
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Descrizione fisica	1 online resource (420 pages)
Altri autori (Persone)	LiLongbiao TiniakovDmytro
Disciplina	670
Soggetti	Industrial engineering Production engineering Aerospace engineering Astronautics Probabilities Engineering design Statistics Mathematical models Industrial and Production Engineering Aerospace Technology and Astronautics Applied Probability Engineering Design Statistics in Engineering, Physics, Computer Science, Chemistry and Earth Sciences Mathematical Modeling and Industrial Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1 Basic Concepts and Dependencies of the Reliability Theory -- 2 Mathematical Base of Reliability -- 3 Non-Repair System Reliability Analysis -- 4 Repair System Reliability Analysis -- 5 Reliability Distribution and Prediction -- 6 Failure Mode, Effects and criticality analysis -- 7 Fault TREE analysis -- 8 Reliability Testing -- 9.Risk Analysis of Aircraft Structure and Systems.
Sommario/riassunto	This textbook covers the fundamentals of reliability theory and its

application for engineering processes, especially for aircraft units and systems. Reliability basis was explained for the best understanding of reliability analysis application for engineering systems in aviation industry. Several approaches for the reliability analysis and their application with examples are presented. It also introduces main trends in the modern reliability theory development. This book will be interested for university students and early-career engineers of aviation industry majors.
