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Pubbl/distr/stampa	London : , : Academic Press, , [2017] 2017
ISBN	0-12-810436-8 0-12-810998-X
Descrizione fisica	1 online resource (xii, 210 pages) : illustrations (some color)
Collana	Gale eBooks
Disciplina	621.30151
Soggetti	Engineering mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Analysis for a qualification test procedure with FMCIA (finite Markov chain imbedding approach) -- 2. Quantitative security evaluation of an intrusion tolerant system -- 3. Mathematics and acoustics -- 4. Signature reliability of sliding window coherent system -- 5. Series-parallel system study under warranty and preventive maintenance -- 6. On solving complex reliability optimization problem using multi-objective particle swarm optimization -- 7. Free vibration and connecting bolt constraint-based FEA analysis of heavy vehicle medium duty transmission gearbox housing made from AISI 4130 alloy material -- 8. Maintenance grouping models for multicomponent systems -- 9. Reliability estimation considering warranty data, usage rate profile, and qualitative information on design changes -- 10. Operational sustainability assessment of multipower source traction drive.
Sommario/riassunto	This book presents a wide array of applied mathematical techniques for engineering applications, covering areas such as acoustics, system engineering, optimization, mechanical engineering, and reliability engineering. It includes mathematical techniques for robotics, computer science, mechanical engineering, HCI and machinability; describes different algorithms; and explains different modeling techniques and simulations.

