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Disciplina	620.00452
Soggetti	Quality control Reliability Industrial safety Computer software—Reusability Computer simulation Mathematical optimization Quality Control, Reliability, Safety and Risk Performance and Reliability Simulation and Modeling Optimization
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Nota di contenuto	A Data Envelopment Analysis Approach to Evaluate the Relative Efficiencies of Schools -- Modeling the Impact of an Infected Patch on Fault Count of a Multi-upgraded Software -- Reliability and Profit Function Improvement of Acyclic Transmission Network Using Artificial Neural Network -- Reliability Assessment of a Sustum Equipped with K-Out-of-N Subsystems -- Performance analysis of Cloud Computing Transition System Under Multiple Failures -- A Three Dimensional Software Reliability Growth Model -- Performance Evaluation of Complex Engineering System -- Hazard and Risk Assessment and Mitigation -- Life Cycle Sustainability Analysis -- Modeling and Simulation -- Application of RAMS to the system of systems -- Application of Advanced Analytics for Improvement of Systems -- Application of Computational Intelligence, IT and Software Systems for

Sommario/riassunto

This book presents the latest research in the fields of reliability theory and its applications, providing a comprehensive overview of reliability engineering and discussing various tools, techniques, strategies and methods within these areas. Reliability analysis is one of the most multidimensional topics in the field of systems reliability engineering, and while its rapid development creates opportunities for industrialists and academics, it is also means that it is hard to keep up to date with the research taking place. By gathering findings from institutions around the globe, the book offers insights into the international developments in the field. As well as discussing the current areas of research, it also identifies knowledge gaps in reliability theory and its applications and highlights fruitful avenues for future research. Covering topics from life cycle sustainability to performance analysis of cloud computing, this book is ideal for upper undergraduate and postgraduate researchers studying reliability engineering.
