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Collana	Mathematical engineering, manufacturing, and management sciences
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Nota di contenuto	Cover; Half Title; Title Page; Copyright Page; Table of Contents; Preface; Contributors; Acknowledgments; Editors; 1: Geometric and Geometric-Like Processes and Their Applications in Warranty Analysis; 2: Supervised Machine Learning: Application Example Using Random Forest in R; 3: Simulation Optimization Approach for Cost Reduction in Multi-echelon Inventory Systems Considering Cooperation among Retailers; 4: Applied Mathematic Technologies in Nonlinear Mechanics of Thin-Walled Constructions; 5: Some Solutions of Differential Equations in Engineering Calculations 6: Application of Transmuted Gumbel Copula for Energy Modeling 7: Differential Quadrature Method: A Robust Technique to Solve Differential Equations; 8: The TSCSTFCF Procedure for Reliability Demonstration; 9: Reliability Evaluation of a MANET Incorporating Copula; 10: Hydromagnetic Flow of Copper-Water Nanofluid with Different Nanoparticle Shapes toward a Nonlinear Stretchable Plate; 11: Reliability and Sensitivity Assessment of a Sugar Mill through Mathematical Modeling; Index
Sommario/riassunto	This book offers the latest research advances in the field of mathematics applications in engineering sciences and provides a reference with a theoretical and sound background, along with case

studies. In recent years, mathematics has had an amazing growth in engineering sciences. It forms the common foundation of all engineering disciplines. This new book provides a comprehensive range of mathematics applied to various fields of engineering for different tasks in fields such as civil engineering, structural engineering, computer science, electrical engineering, among others. It offers articles that develop the applications of mathematics in engineering sciences, conveys the innovative research ideas, offers real-world utility of mathematics, and plays a significant role in the life of academics, practitioners, researchers, and industry leaders. Focuses on the latest research in the field of engineering applications Includes recent findings from various institutions Identifies the gaps in the knowledge of the field and provides the latest approaches Presents international studies and findings in modelling and simulation Offers various mathematical tools, techniques, strategies, and methods across different engineering fields
