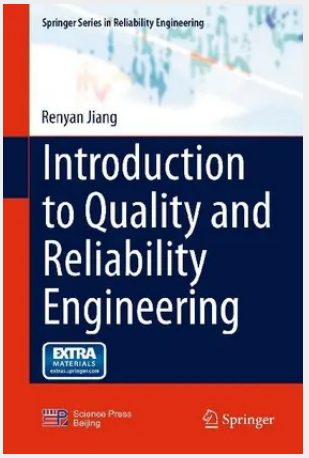
Jiang

Introduction to Quality and Reliability Engineering



This book presents the state-of-the-art in quality and reliability engineering from a product life-cycle standpoint. Topics in reliability include reliability models, life data analysis and modeling, design for reliability as well as accelerated life testing and reliability growth analysis, while topics in quality include design for quality, acceptance sampling and supplier selection, statistical process control, production tests such as environmental stress screening and burn-in, warranty and maintenance. The book provides comprehensive insights into two closely related subjects, and includes a wealth of examples and problems to enhance readers' comprehension and link theory and practice. All numerical examples can be easily solved using Microsoft Excel. The book is intended for senior undergraduate and postgraduate students in related engineering and management programs such as mechanical engineering, manufacturing engineering, industrial engineering and engineering management programs, as well as for researchers and engineers in the quality and reliability fields.

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Integrates the subjects quality and reliability engineeringFocuses on practical issues and quantitative analysisIncludes a wealth of examples and exercises that can be conveniently solved using a spreadsheet programUses Microsoft Excel to conduct optimization, regression and simulation and calculate the values usually determined using statistical tablesSome topics are unique and cross-disciplinary, such as design for X and multi-criteria decision making and supplier selection

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