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Soggetti	<p>Statistics</p> <p>Security systems</p> <p>Mathematical statistics - Data processing</p> <p>Data mining</p> <p>Biometry</p> <p>Statistics in Engineering, Physics, Computer Science, Chemistry and Earth Sciences</p> <p>Security Science and Technology</p> <p>Statistics and Computing</p> <p>Data Mining and Knowledge Discovery</p> <p>Biostatistics</p> <p>Statistics in Business, Management, Economics, Finance, Insurance</p>
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Nota di contenuto	<p>Chapter 1. Phase I Distribution-Free Analysis with the R Package dfphase1 -- Chapter 2. Assessment of Shewhart Control Chart Limits in Phase I Implementations under Various Shift and Contamination Scenarios -- Chapter 3. New results for two-sided CUSUM-Shewhart control charts -- Chapter 4. Optimal Design of the Shiryaev–Roberts Chart: Give Your Shiryaev–Roberts a Headstart -- Chapter 5. On ARL-unbiased charts to monitor the traffic intensity of a single server queue -- Chapter 6. Risk-Adjusted Exponentially Weighted Moving Average Charting Procedure Based on Multi-Responses -- Chapter 7. A Primer on SPC and Web Data -- Chapter 8. The Variable-Dimension Approach in Multivariate SPC -- Chapter 8. Distribution Free Bivariate Monitoring</p>

of Dispersion -- Chapter 9. Monitoring and diagnosis of causal relationships among variables -- Chapter 10. Statistical monitoring of multi-stage processes -- Chapter 11. Control Charts for Time-Dependent Categorical Processes -- Chapter 12. Monitoring of short series of dependent observations using a XWAM control chart -- Chapter 13. Challenges in Monitoring Non-Stationary Time Series -- Chapter 14. Design of Experiments: A Key to Successful Innovation -- Chapter 15. D-Optimal Three-Stage Unbalanced Nested Designs for the Determination of Measurement Precision -- Chapter 16. Sampling inspection by variables under Weibull distribution and Type I censoring -- Chapter 17. Approximate Log-linear Cumulative Exposure Time Scale Model by Joint Moment Generating Function of Covariates -- Chapter 18. A Critique of Bayesian Approaches within Quality Improvement -- Chapter 19. A Note on the Quality of Biomedical Statistics.

Sommario/riassunto

This book provides insights into important new developments in the area of statistical quality control and critically discusses methods used in on-line and off-line statistical quality control. The book is divided into three parts: Part I covers statistical process control, Part II deals with design of experiments, while Part III focuses on fields such as reliability theory and data quality. The 12th International Workshop on Intelligent Statistical Quality Control (Hamburg, Germany, August 16 – 19, 2016) was jointly organized by Professors Sven Knoth and Wolfgang Schmid. The contributions presented in this volume were carefully selected and reviewed by the conference's scientific program committee. Taken together, they bridge the gap between theory and practice, making the book of interest to both practitioners and researchers in the field of quality control.
