Record Nr. UNINA9910831048103321 Autore Box George E. P. Titolo Statistical control by monitoring and feedback adjustment [[electronic resource] /] / George E.P. Box, Alberto Luceno, Maria del Carmen Paniagua-Quinones Hoboken, N.J., : John Wiley & Sons, 2009 Pubbl/distr/stampa **ISBN** 1-283-27393-4 9786613273932 1-118-16453-9 1-118-16446-6 Edizione [2nd ed.] Descrizione fisica 1 online resource (358 p.) Collana Wiley series in probability and statistics Altri autori (Persone) LucenoAlberto Paniagua-QuinonesMaria del Carmen Disciplina 629.8/3 629.83 Soggetti Feedback control systems Process control - Statistical methods Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Statistical Control by Monitoring and Adjustment, Second Edition; Contents: Preface: 1 Introduction and Revision of Some Statistical Ideas: 1.1 Necessity for Process Control; 1.2 SPC and EPC; 1.3 Process Monitoring Without a Model; 1.4 Detecting a Signal in Noise; 1.5 Measurement Data; 1.6 Two Important Characteristics of a Probability Distribution; 1.7 Normal Distribution; 1.8 Normal Distribution Defined by and; 1.9 Probabilities Associated with Normal Distribution; 1.10 Estimating Mean and Standard Deviation from Data; 1.11 Combining Estimates of 2 1.12 Data on Frequencies (Events): Poisson Distribution1.13 Normal Approximation to Poisson Distribution; 1.14 Data on Proportion Defective: Binomial Distribution; 1.15 Normal Approximation to Binomial Distribution; Appendix 1A: Central Limit Effect; Problems; 2

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## Sommario/riassunto

Praise for the First Edition ""This book . . . is a significant addition to the literature on statistical practice . . . should be of considerable interest to those interested in these topics.""-International Journal of Forecasting Recent research has shown that monitoring techniques alone are inadequate for modern Statistical Process Control (SPC), and there exists a need for these techniques to be augmented by methods that indicate when occasional process adjustment is necessary. Statistical Control by Monitoring and Adjustment, Second Edition presents the relationship among these concep