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   Titolo   Statistical robust design : an industrial perspective / / Magnus Arner

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   Descrizione fisica 1 online resource (246 p.)

   Disciplina   745.2

   Soggetti   Industrial design - Statistical methods
                       Robust statistics

   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 at the end of each chapters and
                             index.

   Nota di contenuto   Statistical Robust Design; Contents; Preface; 1 What is robust design?;
                       1.1 The importance of small variation; 1.2 Variance reduction; 1.3
                       Variation propagation; 1.4 Discussion; 1.4.1 Limitations; 1.4.2 The
                       outline of this book; Exercises; 2 DOE for robust design, part 1; 2.1
                       Introduction; 2.1.1 Noise factors; 2.1.2 Control factors; 2.1.3 Control-
                       by-noise interactions; 2.2 Combined arrays: An example from the
                       packaging industry; 2.2.1 The experimental array; 2.2.2 Factor effect
                       plots; 2.2.3 Analytical analysis and statistical significance; 2.2.4 Some
                       additional comments on the plotting
                       2.3 Dispersion effectsExercises; Reference; 3 Noise and control factors;
                       3.1 Introduction to noise factors; 3.1.1 Categories of noise; 3.2 Finding
                       the important noise factors; 3.2.1 Relating noise to failure modes; 3.2.2
                       Reducing the number of noise factors; 3.3 How to include noise in a
                       designed experiment; 3.3.1 Compounding of noise factors; 3.3.2 How
                       to include noise in experimentation; 3.3.3 Process parameters; 3.4
                       Control factors; Exercises; References; 4 Response, signal, and P
                       diagrams; 4.1 The idea of signal and response; 4.1.1 Two situations;
                       4.2 Ideal functions and P diagrams
                       4.2.1 Noise or signal factor4.2.2 Control or signal factor; 4.2.3 The

Sommario/riassunto	Robust Design is an important topic in many areas of the manufacturing industry, there is little on the market that provides adequate coverage. This book deals with the statistical theory of how to design products to be robust against random variation in ""noise"". It adopts a practice-oriented approach to robust design, digressing from the traditional Taguchi approach. Examples featured are taken from an industrial setting to illustrate how to make use of statistics to identify robust design solutions.

2. Record Nr.   UNISALENTO991004178509707536

   Autore   Battisti, Carlo

   Titolo   Autobibliografia / Carlo Battisti ; presentazione di G. B. Pellegrini

   Pubbl/distr/stampa   Firenze : Leo S. Olschki, 1970

   Descrizione fisica   XXIV, 54 p. : ill. ; 24 cm

   Altri autori (Persone)   Pellegrini, Giovanni Battista

   Disciplina   016.4

   Soggetti   Battisti, Carlo Opere Bibliografia
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   Lingua di pubblicazione   Italiano

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

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