1. Record Nr. UNINA9910829973703321 Autore Box George E. P. Titolo Response surfaces, mixtures, and ridge analyses [[electronic resource] /] / George E.P. Box, Norman R. Draper Hoboken, N.J., : John Wiley, c2007 Pubbl/distr/stampa **ISBN** 1-282-24228-8 9786613813404 0-470-07276-8 0-470-07275-X Edizione [2nd ed.] Descrizione fisica 1 online resource (873 p.) Wiley Series in Probability and Statistics;; v.649 Collana DraperNorman Richard Altri autori (Persone) Disciplina 519.57 Soggetti Experimental design Response surfaces (Statistics) Mixture distributions (Probability theory) Ridge regression (Statistics) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references (p. 757-850) and index. Nota di contenuto Response Surfaces, Mixtures, and Ridge Analyses; Contents; Preface to the Second Edition; 1. Introduction to Response Surface Methodology; 1.1. Response Surface Methodology (RSM); 1.2. Indeterminancy of Experimentation; 1.3. Iterative Nature of the Experimental Learning Process; 1.4. Some Classes of Problems (Which, How, Why); 1.5. Need for Experimental Design; 1.6. Geometric Representation of Response Relationships; 1.7. Three Kinds of Applications; 2. The Use Of Graduating Functions; 2.1. Approximating Response Functions; 2.2. An Example: Appendix 2A, A Theoretical Response Function 3. Least Squares for Response Surface Work3.1. The Method of Least Squares; 3.2. Linear Models; 3.3. Matrix Formulas for Least Squares; 3.4. Geometry of Least Squares; 3.5. Analysis of Variance for One Regressor; 3.6. Least Squares for Two Regressors; 3.7. Geometry of the Analysis of Variance for Two Regressors; 3.8. Orthogonalizing the

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The authority on building empirical models and the fitting of such surfaces to data-completely updated and revised Revising and updating a volume that represents the essential source on building empirical models, George Box and Norman Draper-renowned authorities in this field-continue to set the standard with the Second Edition of Response Surfaces, Mixtures, and Ridge Analyses, providing timely new techniques, new exercises, and expanded material. A comprehensive introduction to building empirical models, this book presents the general philosophy and computational details of a number o