1. Record Nr. UNISA996197295303316 Autore Gacula Maximo C Titolo Design and analysis of sensory optimization [[electronic resource] /] / Maximo C. Gacula, Jr Trumbull, Conn., USA, : Food & Nutrition Press, c1993 Pubbl/distr/stampa **ISBN** 1-281-45022-7 9786611450229 0-470-38501-4 0-470-38479-4 Edizione [1st ed.] Descrizione fisica 1 online resource (316 p.) Collana Publications in food science and nutrition Disciplina 658.5/62 664.072 Soggetti Quality control - Statistical methods Sensory evaluation 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. 291-298) and index. Nota di contenuto DESIGN AND ANALYSIS OF SENSORY OPTIMIZATION; PREFACE; CONTENTS; 1. INTRODUCTION; 1.1 Statistical Inference; 1.2 Experimental Design; 1.3 Sample Size; 1.4 Randomization; 1.5 Analysis of Variance; 1.6 Multiple Comparison Tests; Duncan's Multiple Range Test; Rank Sum Multiple Comparison Test; 1.7 Some Useful Tools for Data Analysis; Deviation from the Mean; Rejection of Outlying Observations; Test Procedures; 2. DESIGNS FOR COMPARING TWO POPULATIONS; 2.1 Paired Comparison Design; 2.2 Group Comparison Design: 3. COMPLETELY RANDOM AND RANDOMIZED COMPLETE BLOCK **DESIGN** 3.1 Completely Randomized Design 3.2 Randomized Complete Block Design; 4. INCOMPLETE BLOCK DESIGNS; 4.1 Balanced Incomplete Block Design; 4.2 Incomplete Blocks Augmented with Control; 5. CROSSOVER

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Sommario/riassunto

This book discusses experimental designs which are very useful in sensory and consumer testing. As an added feature this coverage is fully illustrated with real-life examples. In addition, the importance of fractional factorial designs are explained more fully than in books now available. The heart of this book is product optimization which covers in great detail designs and analysis of optimization studies with consumers. A rundown of this chapter includes: preliminaries, test for adequacy of statistical model and least squares estimation of regression parameters; why use optimization