1. Record Nr. UNINA9910831056303321 Autore Heiberger Richard M. <1945-> **Titolo** Computation for the analysis of designed experiments // Richard M. Heiberger New York;; Chichester;; Brisbane:,: John Wiley & Sons,, 1989 Pubbl/distr/stampa ©1989 **ISBN** 1-119-10287-1 1-119-10280-4 Descrizione fisica 1 online resource (704 p.) Collana Wiley Series in Probability and Statistics Disciplina 519.5 519.50285 Soggetti Mathematical statistics - Data processing Analysis of variance - Data processing Experimental design Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia ""Front Cover""; ""Copyright Page""; ""Contents""; ""Preface""; Nota di contenuto ""Acknowledgments"": ""PART I COMPARATIVE STUDIES AND DESIGNED EXPERIMENTS""; ""1. Introduction""; ""1.1 Comparative Studies and Designed Experiments": "1.2 Programming Systems": "1.3 Least Squares and Analysis of Variance""; ""1.4 Interpretation of Design Specifications""; ""1.5 Analysis of Designed Experiments""; ""2. Simple Designed Experiments"; ""2.1 Principles of Designed Experiments""; ""2.1.1 Analysis of Designed Experiments""; ""2.1.2 Types of Simple Design""; ""2.2 The One-Way Design"" ""2.2.1 Design Specification Statements"""2.2.2 Suppression of Redundant Notation""; ""2.2.3 The Experiment""; ""2.2.4 The Analysis""; ""2.3 The Blocked Design""; ""2.3.1 Consequences of Ignoring Blocks""; ""2.3.2 Specification of the Blocked Design""; ""2.3.3 The Experiment""; ""2.3.4 The Analysis""; ""2.3.5 An Alternative Design Specification""; ""2.3.6 Relative Efficiency of Blocking""; ""2.4 The Crossed Design""; ""2.4.1 Specification of the Crossed Design""; ""2.4.2 The Experiment""; ""2.4.3 The Analysis"": ""2.5 The Nested Design"": ""2.5.1 Specification of the Nested Design""

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Sommario/riassunto

Addresses the statistical, mathematical, and computational aspects of the construction of packages and analysis of variance (ANOVA) programs. Includes a disk at the back of the book that contains all program codes in four languages, APL, BASIC, C, and FORTRAN. Presents illustrations of the dual space geometry for all designs, including confounded designs.