

Lecture Notes in Statistics

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A Calculus for
Factorial Arrangements



Springer-Verlag

Calculus For Factorial Arrangements

Aloke Dey, Rahul Mukerjee



Calculus For Factorial Arrangements:

A Calculus for Factorial Arrangements Sudhir Gupta,Rahul Mukerjee,1989-11-01 A Calculus for Factorial Arrangements Sudhir Gupta,Rahul Mukerjee,2012-09-10 Factorial designs were introduced and popularized by Fisher 1935 Among the early authors Yates 1937 considered both symmetric and asymmetric factorial designs Bose and Kishen 1940 and Bose 1947 developed a mathematical theory for symmetric prili t powered factorials while Nair and Roo 1941 1942 1948 introduced and explored balanced confounded designs for the asymmetric case Since then over the last four decades there has been a rapid growth of research in factorial designs and a considerable interest is still continuing Kurkjian and Zelen 1962 1963 introduced a tensor calculus for factorial arrangements which as pointed out by Federer 1980 represents a powerful statistical analytic tool in the context of factorial designs Kurkjian and Zelen 1963 gave the analysis of block designs using the calculus and Zelen and Federer 1964 applied it to the analysis of designs with two way elimination of heterogeneity Zelen and Federer 1965 used the calculus for the analysis of designs having several classifications with unequal replications no empty cells and with all the interactions present Federer and Zelen 1966 considered applications of the calculus for factorial experiments when the treatments are not all equally replicated and Paik and Federer 1974 provided extensions to when some of the treatment combinations are not included in the experiment The calculus which involves the use of Kronecker products of matrices is extremely helpful in deriving characterizations in a compact form for various important features like balance and orthogonality in a general multifactor setting **A CALCULUS FOR FACTORIAL**

ARRANGEMENTS. B. KURKJIAN,M. ZELEN,WISCONSIN UNIV MADISON MATHEMATICS RESEARCH CENTER.,1961 A special calculus for the analysis of factorial experiments is introduced The calculus applies to the general case of asymmetric factorial experiments and is not restricted to symmetric factorials as is the current theory which relies on the theory of finite projective geometry The concise notation and operations of this calculus point up the relationship of treatment combinations to interactions and the effect of patterns of arrangements on the distribution of relevant quantities One aim is to carry out complex manipulations and operations with relative ease The calculus enables many large order arithmetic operations necessary for analyzing factorial designs to be partly carried out by logical operations This should be of importance in programming the analysis of factorial designs on high speed computers Author **Applications of the Calculus of**

Factorial Arrangements I: Block and Direct Product Designs Badrig Kurkjian,Marvin Zalen,WISCONSIN UNIV MADISON MATHEMATICS RESEARCH CENTER.,WISCONSIN UNIV-MADISON.,1962 This paper applies an operational calculus for factorial arrangements to the analysis of randomized block balanced incomplete block group divisible and many direct product designs The theoretical aspects of the calculus were presented Ann Math Stat June 1962 **Applications of the Calculus for Factorial Arrangements** W. T. Federer,M. Zelen,1964 *Contributions to the Calculus for Factorial Arrangements* James Michael Hardin,University of Alabama. Program in Applied Statistics,1985 **Application of the**

Calculus for Factorial Arrangements: Arbitrary Block Designs, 1972 A unified method of analysis for factorial arrangements in block designs has been developed for arbitrary block designs The main results shown here an easy way to determine the degrees of freedom for treatments a systematic approach to find a set of estimable effects and in the factorial case a method to determine which effects are confounded with blocks or aliased with other effects *Applications of the Calculus for Factorial Arrangements Iii: Two Way Elimination of Heterogeneity* M. Zelen,W. Federer,WISCONSIN UNIV MADISON MATHEMATICS RESEARCH CENTER.,1963 The special notation and operations are presented as developed by Kurkjian and Zelen 1962 Ann Math Statist 33 600 619 to problems in experimental design This paper considers general methods for the analysis and construction of designs having two way elimination of heterogeneity The general methods of analysis allow for incomplete row balance as well as incomplete blocks columns with respect to the treatments New designs are constructed by taking the direct product of the row and column incidence matrices of two designs Author

APPLICATIONS OF THE CALCULUS FOR FACTORIAL ARRANGEMENTS 2: UNEQUAL NUMBERS IN THE ANALYSIS OF VARIANCE. UNITED STATES. DEPARTMENT OF THE ARMY. MATHEMATICS RESEARCH CENTER.,

Applications of the Calculus for Factorial Arrangements Ii: Unequal Numbers in the Analysis of Variance W. T. Federer,M. Zelen,WISCONSIN UNIV MADISON MATHEMATICS RESEARCH CENTER.,1964 This paper develops a new theory for the analysis of disproportionate numbers of observations in multi factor classifications The principal theoretical result enables a generalized sum of squares in the analysis of variance to be written explicitly Use of this result leads to minimum calculations compared to other methods now in general use A numerical example is presented illustrating the calculations Author *APPLICATIONS OF THE CALCULUS FOR FACTORIAL ARRANGEMENTS 3: TWO WAY ELIMINATION OF HETEROGENEITY.* UNITED STATES. DEPARTMENT OF THE ARMY. MATHEMATICS RESEARCH CENTER., *Journal of Research of the National Bureau of Standards* ,1962 *U.S. Government Research Reports* ,1962

Analysis of Non-orthogonal N-way Classifications and Fractional Replication Uhn Boong Paik,1968

Constructions and Combinatorial Problems in Design of Experiments Damaraju Raghavarao,1971 Complete sets of mutually orthogonal latin squares Orthogonal arrays Pairwise balanced designs and mutually orthogonal latin squares General properties of incomplete block designs Balanced incomplete block designs Systems of distinct representatives and youden squares Tactical configuration and doubly balanced designs Partially balanced incomplete block designs Graph theory and partial geometries Duals of incomplete block designs Mathematics for statisticians *Computers and Data Processing Systems* ,1962 *Fractional Factorial Plans* Alope Dey,Rahul Mukerjee,1999-03-25 A one stop reference to fractional factorials and related orthogonal arrays Presenting one of the most dynamic areas of statistical research this book offers a systematic rigorous and up to date treatment of fractional factorial designs and related combinatorial mathematics Leading statisticians Alope Dey and Rahul Mukerjee consolidate vast amounts of material from the professional literature expertly

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