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This monograph is a self-contained development of zonal polynomials in the framework of standard multivariate analysis. Except for the usual tools of multivariate normal distribution theory and linear algebra, no extensive mathematical background is assumed. This contrasts with earlier treatments of the theory of zonal polynomials. It is hoped that the present approach will make zonal polynomials and the theory of noncentral distribution in multivariate analysis accessible to a much wider audience.

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with the cooperation of I. Olkin, M.D. Perlman, F. Proschan and C.R. Rao

This volume comprises the proceedings of the Symposium on Inequalities in Statistics and Probability held in Lincoln, Nebraska during October 1982. (The Symposium was sponsored by the National Science Foundation, the Office of Naval Research, and the University of Nebraska. Typesetting of the volume was supported by the University of Nebraska.)

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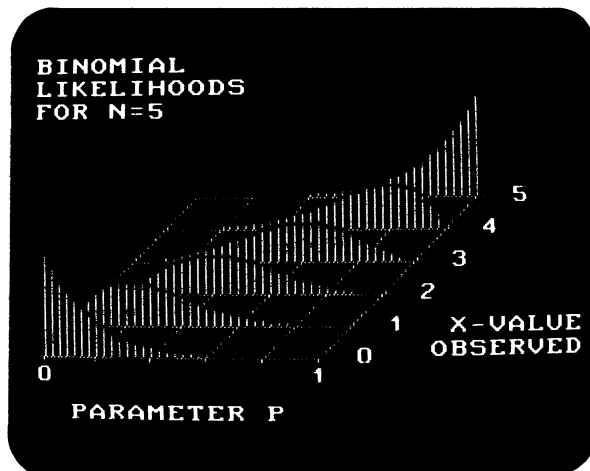
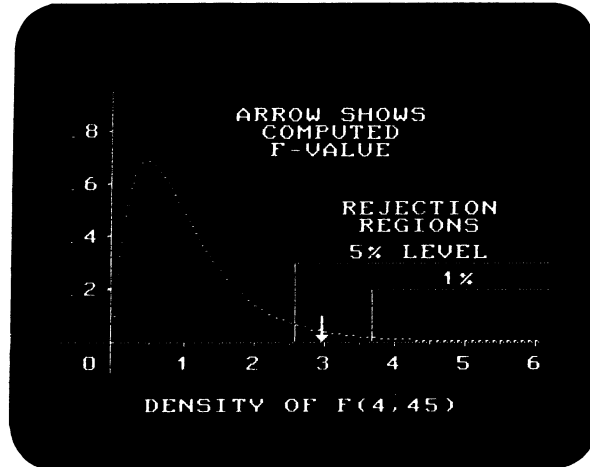
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Bruce E. Trumbo is Professor of Statistics at California State University, Hayward. A graduate of Knox College in 1959, he earned both S.M. and Ph.D. degrees at the University of Chicago. He is a Fellow of the Institute of Mathematical Statistics and a member of the American Statistical Association.



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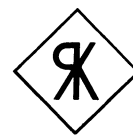


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