

THE ANNALS of MATHEMATICAL STATISTICS

FOUNDED AND EDITED BY H. C. CARVER, 1930-1938

EDITED BY S. S. WILKS, 1938-1949

THE OFFICIAL JOURNAL OF THE INSTITUTE
OF MATHEMATICAL STATISTICS

Contents

	PAGE
A Measure of Asymptotic Efficiency for Tests of a Hypothesis Based on the Sum of Observations. HERMAN CHERNOFF.....	493
Orthogonal Arrays of Strength Two and Three. R. C. BOSE AND K. A. BUSH..	508
A Nonparametric Test for the Several Sample Problem. WILLIAM H. KRUSKAL.....	525
Testing Multiparameter Hypotheses. E. L. LEHMANN.....	541
Impartial Decision Rules and Sufficient Statistics. RAGHU RAJ BAHADUR AND LEO A. GOODMAN.....	553
Some Distribution-free Tests for the Difference between Two Empirical Cumulative Distribution Functions. E. F. DRION.....	563
Confidence Bounds for a Set of Means. D. A. S. FRASER.....	575
Sequential Minimax Estimation for the Rectangular Distribution with Unknown Range. J. KIEFER.....	586
Extension of a Method of Investigating the Properties of Analysis of Variance Tests to the Case of Random and Mixed Models. F. N. DAVID AND N. L. JOHNSON.....	594
Some Relations among the Blocks of Symmetrical Group Divisible Designs. W. S. CONNOR.....	602
An Optimum Solution to the k -Sample Slippage Problem for the Normal Distribution. EDWARD PAULSON.....	610
Limit Theorems Associated with Variants of the von Mises Statistic. M. ROSENBLATT.....	617
Notes:	
A Markov Chain Derivation of Discrete Distributions. F. G. FOSTER..	624
On Minimum Variance Estimators. J. KIEFER.....	627
Bhattacharyya Bounds without Regularity Assumptions. D. A. S. FRASER AND IRWIN GUTTMAN.....	629
On the Analysis of Samples from k Lists. LEO A. GOODMAN.....	632
The Standard Error of Gini's Mean Difference. Z. A. LOMNICKI.....	635
Correction to "A Note on the Power of a Nonparametric Test." F. J. MASSEY, JR.....	637
Abstracts of Papers.....	638
News and Notices.....	647
Report of the East Lansing Meeting.....	651
Publications Received.....	655
Institutional Members.....	655

Vol. 23, No. 4 — December, 1952