

# 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
Alternative Models for the Analysis of Variance. HENRY SCHEFFÉ.....	251
The Theory of Decision Procedures for Distributions with Monotone Likelihood Ratio. SAMUEL KARLIN AND HERMAN RUBIN.....	272
On the Power of Certain Tests for Independence in Bivariate Populations. H. S. KONIJN.....	300
The Efficiency of Some Nonparametric Competitors of the $t$ -test. J. L. HODGES, JR. AND E. L. LEHMANN.....	324
On Regular Best Asymptotically Normal Estimates. CHIN LONG CHIANG.....	336
The Large-sample Power of Rank Order Tests in the Two-sample Problem. MEYER DWASS.....	352
The Estimation of the Size of a Stratified Animal Population. D. G. CHAPMAN AND C. O. JUNGE, JR.....	375
On the Design and Comparison of Certain Dichotomous Experiments. RUSSELL N. BRADT AND SAMUEL KARLIN.....	390
Tables of Expected Values of Order Statistics and Products of Order Statistics for Samples of Size Twenty and Less from the Normal Distribution. D. TEICHROEW.....	410
Estimation of Location and Scale Parameters by Order Statistics from Singly and Doubly Censored Samples. Part I. A. E. SARHAN AND B. G. GREENBERG.....	427
A Waiting Line Process of Markov Type. A. B. CLARKE.....	452
Accurate Sequential Tests on the Mean of an Exponential Distribution. G. E. ALBERT.....	460
On the Normal Approximation to the Hypergeometric Distribution. W. L. NICHOLSON.....	471
Charts of the Power of the $F$ -test. MARTIN FOX.....	484
Estimating the Parameters of a Truncated Gamma Distribution. DOUGLAS G. CHAPMAN.....	498
Approximate Upper Percentage Points for Extreme Values in Multinomial Sampling. ROBERT M. KOZELKA.....	507
An Extension of the Kolmogorov Distribution. JEROME BLACKMAN.....	513
On the Simultaneous Analysis of Variance Test. K. V. RAMACHANDRAN.....	521
Notes:	
On the Distribution of the Likelihood Ratio. ROBERT V. HOGG.....	520
An Application of Chung's Lemma to the Kiefer-Wolfowitz Stochastic Approximation Procedure. CYRUS DERMAN.....	532
Some Results on Restricted Occupancy Theory. JOHN E. FREUND AND ARTHUR N. POZNER.....	537
A Vector Form of the Wald-Wolfowitz-Hoeffding Theorem. D. A. S. FRASER.....	540
Abstracts of Papers.....	543
News and Notices.....	552
Report of the Princeton Meeting.....	561
Report of the Chicago Meeting.....	563
Report of the Treasurer of the Institute.....	565
Publications Received.....	567

Vol. 27, No. 2 — June, 1956