

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

Articles

	PAGE
Asymptotic theory for successive sampling with varying probabilities without replacement, I.....	BENGT ROSÉN 373 ✓
On the optimality of some multiple comparison procedures.....	EMIL SPJOTVOLL 398 ✓
Functions of order statistics.....	GALEN R. SHORACK 412
Distribution free tests for symmetry based on the number of positive sums	D. L. BURDICK 428
Limit laws for extreme order statistics from strong-mixing processes.....	ROY E. WELSCH 439
Fixed alternatives and Wald's formulation of the noncentral asymptotic behavior of the likelihood ratio statistic.....	T. W. F. STROUD 447
Estimation and testing for differences in magnitude or displacement in the mean vectors of two multivariate normal populations	CHARLES H. KRAFT, INGRAM OLKIN AND CONSTANCE VAN EEDEN 455
Bahadur efficiencies of some tests for uniformity on the circle.....	J. S. RAO 468
Randomization model for incomplete block designs.....	J. ROBINSON 480
Statistical structure of the problem of sampling from finite populations	HARUKI MORIMOTO 490
On the Dubins and Savage characterization of optimal strategies	WILLIAM D. SUDDERTH 498
A note on asymptotic joint normality.....	C. L. MALLOWS 508
On the distribution of the maximum of random variables.....	JANOS GALAMBOS 516
Upper bounds for the asymptotic maxima of continuous Gaussian processes	M. B. MARCUS 522
On the number of solutions of systems of random equations.....	DAVID R. BRILLINGER 534
The maximization of entropy of discrete denumerably-valued random variables with known mean.....	ROMAN A. MUREIKA 541
Transformation groups and sufficient statistics.....	J. PFANZAGL 553
Strong ratio limit theorems for Markov processes.....	MICHAEL LIN 569
Asymptotic properties of Gaussian processes..	CLIFFORD QUALLS AND HISAO WATANABE 580
Some remarks on asymmetric processes.....	P. W. MILLAR 597
An invariance principle for martingales.....	RICHARD DROGIN 602

Continued on back cover

Vol. 43, No. 2—April 1972