## THE ANNALS of MATHEMATICAL STATISTICS

(FOUNDED BY H. C. CARVER)

THE OFFICIAL JOURNAL OF THE INSTITUTE OF MATHEMATICAL STATISTICS

**VOLUME XIII** 

1942

## CONTENTS OF VOLUME XIII

## ARTICLES

Anderson, Paul H. Distributions in Stratified Sampling 42	
Anderson, R. L. Distribution of the Serial Correlation Coefficient 1	
BATTIN, I. L. On the Problem of Multiple Matching	
BERNSTEIN, S. (Translated by Emma Lehmer), Solution of a Mathe-	
matical Problem Connected with the Theory of Heredity 53	
Burr, Irving W. Commulative Frequency Functions	
CAMP, BURTON H. Some Recent Advances in Mathematical Statistics, I. 62	
CHUNG, KAI-LAI. On Mutually Favorable Events	
CRAIG, C. C. Some Recent Advances in Mathematical Statistics, II 74	
DWYER, P. S. Grouping Methods	
GEIRINGER, HILDA. Observations on Analysis of Variance Theory 350	
HART, B. I., AND VON NEUMANN, JOHN. Tabulation of the Probabilities	
for the Ratio of the Mean Square Successive Difference to the Variance. 207	
HASEL, A. A. Estimation of Volume in Timber Stands by Strip Sampling. 179	
Kimball, Bradford F. Limited Type of Primary Probability Distri-	
bution Applied to Annual Flood Flows	
KOOPMANS, TJALLING. Serial Correlation and Quadratic Forms in Normal	
Variables	
Lonseth, A. T. Systems of Linear Equations with Coefficients Subject	
to Error	
LOTKA, ALFRED J. The Progeny of an Entire Population 115	
Mann, H. B., and Wald, A. On the Choice of the Number of Intervals	
in the Application of the Chi Square Test	
Samuelson, P. A. A Method of Determining Explicitly the Coefficients	
of the Characteristic Equation	
SATTERTHWAITE, FRANKLIN E. A Generalized Analysis of Variance 34	
SATTERTHWAITE, FRANKLIN E. Linear Restrictions on Chi-Square 326	
SATTERTHWAITE, FRANKLIN E. Generalized Poisson Distribution 410	
SCHEFFÉ, HENRY. On the Theory of Testing Composite Hypotheses with	
One Constraint	
SCHEFFÉ, HENRY. On the Ratio of the Variances of Two Normal Popu-	
lations	
STEPHAN, FREDERICK F. An Iterative Method of Adjusting Sample Fre-	
quency Tables when Expected Marginal Tables are Known 166	
von Mises, R. On the Correct Use of Bayes' Formula	
yon Neumann, John and Hart, B. I. Tabulation of the Probabilities	
for the Ratio of the Mean Square Successive Difference to the Vari-	
ance	
wanter the state of the state o	

Wald, Abraham. Asymptotically Shortest Confidence Intervals Wald, A. A., and Mann, H. B. On the Choice of the Number of Inter-	127
	306
WALD, ABRAHAM. Setting of Tolerance Limits when the Sample is	300
· · · · · · · · · · · · · · · · · · ·	389
Large	009
·	400
of Tolerance Limits	400
,	047
Hypotheses	247
Notes	
Beckenbach, E. F. Convexity Properties of Generalized Mean Value Functions	88
BIRNBAUM, Z. W. An Inequality for Mills' Ratio	
	430
DIEULEFAIT, CARLOS E. Note on a Method of Sampling	94
FISCHER, CARL H. A Sequence of Discrete Variables Exhibiting Correla-	-
tion Due to Common Elements	97
	238
GIRSHICK, M. A. Note on the Distribution of Roots of a Polynomial with	
,	235
•	447
HART, B. I. Significance Levels for the Ratio of the Mean Square Succes-	
	445
LUKACS, EUGENE. A Characterization of the Normal Distribution	91
	418
Paulson, Edward. An Approximate Normalization of the Analysis of	
	233
Paulson, Edward. A Note on the Estimation of Some Mean Values for	
·	440
VON NEUMANN, JOHN. A Further Remark Concerning the Distribution of	
the Ratio of the Mean Square Successive Difference to the Vari-	
ance	86
Wald, Abraham. On the Power Function of the Analysis of Variance	
Test	434
Miscellaneous	
Abstracts of Papers	<b>45</b> 0
Annual Report of the Secretary-Treasurer of the Institute	
Report of the Dallas Meeting of the Institute	
Report of the New York Meeting of the Institute	
Report of the Poughkeepsie Meeting of the Institute	