# **ECONOMETRICA**

## Journal of the Econometric Society

## Contents of Vol. 18, October, 1950, include:

Identifiability of a Linear Relation between Variables which Are Subject to Error List of Members of the Econometric Society Geographical List of Members and Subscribers

Announcements, Notes, and Memoranda

Published Quarterly

Subscription to Nonmembers: \$9.00 per year

The Econometric Society is an international society for the advancement of economic theory in its relation to statistics and mathematics.

Subscriptions to Econometrica and inquiries about the work of the Society and the procedure in applying for membership should be addressed to William B. Simpson, Secretary, The Econometric Society, The University of Chicago, Chicago 37, Illinois, U.S.A.

# MATHEMATICAL REVIEWS

A journal containing reviews of the mathematical literature of the world, with full subject and author indices

Publication of this journal is sponsored by the American Mathematical Society, Mathematical Association of America, Institute of Mathematical Statistics, London Mathematical Society, Edinburgh Mathematical Society, Union Matematica Argentina, and others.

Subscriptions accepted to cover the calendar year only. Issues appear monthly except July. \$20.00 per year.

Send subscription order or request for sample copy to

AMERICAN MATHEMATICAL SOCIETY 531 West 116th Street, New York City 27

#### BIOMETRIKA

A Journal for the Statistical Study of Biological Problems

Volume 37

Contents

Parts 3 and 4, December 1950

1. A simple stochastic epidemic. By N. T. J. BAILEY. 2. On the Fisher-Behrens test. By G. A. BARNARD. 3. The incomplete Beta Function as a contour integral and a quickly converging series for its inverse. By M. E. WISE. 4. On the levels of significance of the incomplete Beta Function and the Fdistribution. By L. A. AROIAN. 5. On the generalized second limit-theorem in the calculus of probabilities. By D. G. KENDALL and K. S. RAO. 6. A note on the cumulants of Kendall's S-distribution. By H. SILVERSTON E.7. The comparison of percentages in matched samples. By W. G. COCHRAN 8. The distribution of the variance-ratio in random samples of any size drawn from non-normal universes. By A. K. GAYEN. 9. The exact partition of  $\chi^2$  and its application to the problem of the pooling of small expectations. By H. O. LANCASTER. 10. Use of range in analysis of variance. By H. O. HARTLEY. 11. On the comparison of estimators. By N. L. JOHNSON. 12. A rapid method for ascertaining serial lag correlation. By G. D. GIBSON. 13. Tables of the  $\chi^2$ -integral and of the cumulative Poisson distribution. By H. O. HARTLEY and E. S. PEARSON. 14. The maximum F-ratio as a short-cut test for heterogeneity of variance. By H. O. HARTLEY. 15. On the sequential t-test. By S. RUSHTON. 16. Properties of some tests in sequential analysis. By A. G. BAKER. 17. The unbiassed estimation of heterogeneous error variances. By A. S. C. EHRENBERG. 18. Sampling theory of the negative binomial and logarithmic series distributions. By F. J. ANSCOMBE. 19. On questions raised by the combinations of tests based on discontinuous distributions. By E. S. PEARSON. 20. Significance of difference between the means of two non-normal samples. By A. K. GAYEN. 21. Testing for serial correlation in least squares regression-I. By J. DURBIN and G. S. WATSON. 22. Distribution of 'Student'-Fisher's t in samples from compound normal functions. By H. HYRENIUS. 23. MISCELLANEA. 24. REVIEWS.

The subscription price, payable in advance, is 45s. inland, 54s. export (per volume including postage). Cheques should be drawn to Biometrika and sent to "The Secretary, Biometrika Office, Department of Statistics, University College, London, W.C. 1." All foreign cheques must be in sterling and drawn on a bank having a London agency.

# SKANDINAVISK AKTUARIETIDSKRIFT

1950 - Parts 1 - 2

#### Contents

GERHARD ARFWEDSENSome Problems in the Collective Theory of Risk
E. KivikoskiEin Vernachlässigtes Interpolationsverfahren
E. Zwinggi. A Study of the Dependence of the Premium on the Rate of Interest
ERICH MICHALUPOn Inverse Linear Interpolation
H. V. MuhsamAn Attempt to Classify Life Tables

Annual subscription: 10 Swedish Crowns (Approx. \$2.00).

Inquiries and orders may be addressed to the Editor,

SKÄRVIKSVÄGEN 7, DJURSHOLM (SWEDEN)

# SANKHYĀ

# The Indian Journal of Statistics Edited by P. C. Mahalanobis

#### Vol. X, Parts 1 and 2, 1950

Vol. A, 1 alts 1 and 2, 1550
Statistical Analysis of Some Physiological Experiments ARTHUR LINDER AND ETIENNE GRANDIEAN
On a Problem of Two Dimensional Probability
Univariate and Multivariate Analysis as Problems in Testing of Composite
Hypotheses—I
C. Radhakrishna Rao
A Note on the Fractional Replication of Factorial ArrangementsK. S. BANERJEE
Two Dimensional Systematic Sampling and the Associated Stratified and Random Sampling
Sampling
Miscellaneous Notes
Note on "Anthropometric Survey of the United Provinces, 1941: A Statistical Study, Part III—Anthropological Observations"
G. Morgenstierne United Nations Economic and Social Council Sub-Commission on Statistical
Sampling: Report to the Statistical Commission
Book Reviews

Annual subscription: 30 rupees Inquiries and orders may be addressed to the Editor, Sankhyā, Presidency College, Calcutta, India.

# ROYAL STATISTICAL SOCIETY

## SPECIAL REPRINTS

#### SYMPOSIUM ON STOCHASTIC PROCESSES:

Stochastic Processes and Statistical Physics, J. E. MOYAL Some Evolutionary Stochastic Processes, M. S. BARTLETT Stochastic Processes and Population Growth, D. G. KENDALL (With Discussion on the papers)

Price, post free 12s. 6d.

TABLES OF SEQUENTIAL INSPECTION SCHEMES TO CONTROL FRACTION DEFECTIVE, F. J. Anscombe Price, post free, 2s. 6d.

These papers, published in the Journal of the Royal Statistical Society, 1949 have now been issued in reprint form. Copies may be obtained direct from

The Royal Statistical Society, 4, Portugal Street, London, W.C.2.

## JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION 1108 16th Street, N. W. Washington 6, D. C.

September 1950 Vol. 45 No. 251



Book Reviews

The American Statistical Association invites as members all persons interested in:

- 1. development of new theory and method
- 2. improvement of basic statistical data
  - 3. application of statistical methods to practical problems.

## THE INSTITUTE OF MATHEMATICAL STATISTICS

(Organized September 12, 1935)

#### officers for 1950

President:

J. L. Doob, University of Illinois, Urbana

President-Elect:

P. S. DWYER, University of Michigan, Ann Arbor

Secretary-Treasurer:

C. H. Fischer, University of Michigan, Ann Arbor

Editor:

T. W. Anderson, Columbia University, New York

The purpose of the Institute of Mathematical Statistics is to stimulate research in the mathematical theory of statistics and to promote cooperation between the field of pure research and the fields of application.

Membership dues including subscription to the Annals of Mathematical Statistics are \$7.00 per year within the Western Hemisphere and \$5.00 per year elsewhere. Dues and inquiries regarding membership in the Institute should be sent to the Secretary-Treasurer of the Institute.

#### MEETINGS OF THE INSTITUTE

ANNUAL MEETING—CHICAGO, ILLINOIS—December 27-29, 1950. To be held in conjunction with the meeting of the American Statistical Association. Abstracts must be in the hands of Associate Secretary K. J. Arnold, North Hall, University of Wisconsin, Madison, Wisconsin, not later than November 15.

SPRING MEETING—OAK RIDGE, TENNESSEE—March 15-17, 1951.

To be held in conjunction with the Biometric Society. Abstracts must be in the hands of Associate Secretary K. J. Arnold, North Hall, University of Wisconsin, Madison, Wisconsin, not later than February 1.