## The Institute of Mathematical Statistics

and

## The American Statistical Association

announce publication of Volume 4 (1978) of

# CURRENT INDEX TO STATISTICS: APPLICATIONS, METHODS AND THEORY

An annual computerized index to the statistical literature

Coverage—Over 7,000 articles in "core" and "related" journals for 1978 are indexed. Author index and index by key words. Example of subject index (complete reference to journal, volume, pages, etc., is given):

Asymptotic Properties of Non-linear Least Squares Estimators • R. I. Jennrich Interval Estimation of Non-linear Parametric Functions • Halpern, Mantel Interval Estimation of Non-linear Parametric Functions, II • M. Halpern

On a Problem in Non-linear Prediction Theory • J. B. Robertson

Convergence in Non-linear Regression • T. Tornheim

Non-linear Regression with Minimal Assumptions • H. M. Wagner

Non-linear

Discrimination Among Mechanistic Models • G.E.P. Box

New Analysis of Variance Model for Nonadditive Data • J. Mandel

Simplified Experimental Design • M. J. Box

Who should subscribe—All individuals who spend any significant fraction of their time doing statistics. Anyone who spends more than one hour per year looking for an article on a particular topic in statistics or redeveloping some technique that already exists in the literature will find it cost effective to have a personal copy of this index.

Editor-Brian L. Joiner, University of Wisconsin. Assistant Editor-Jessie M. Gwynne

Management Committee—Donald A. Gardiner, Chairman; Heebok Park, Seymour Geisser, David Hoaglin, David L. Wallace

Subscription Rates—Vols. 1,2,3 (per vol.)

Nonmember \$ 18.00; Member \$ 9.00

Vol. 4

Nonmember \$ 22.00; Member \$ 11.00

Send orders and remittance to-

The Institute of Mathematical Statistics Business Office 3401 Investment Blvd. Suite 6 Hayward, California 94545

# ANNALS OF STATISTICS

Vol. 8	March 1980	No. 2
Distribution-free consist and regression funct		etric discrimination
Consistent window estim	nation in nonparametric regre	
ance matrices and e	lihood ratio tests for equalit equality of several multivaria Mic	ate normal popula-
Estimation of the correla	ntion coefficient from a broke Morris H. DeGroot A	en random sample ND PREM K. GOEL
distributions with co	location parameters for sph oncave loss . Brandwein and William	
The empirical distributio	on function of residuals from	generalised regres-
An Edgeworth expansion H. Cal	n for <i>U</i> -statistics LLAERT, PAUL JANSSEN AND	N. Veraverbeke
On almost sure linearity	theorems for signed rank ord PR	ler statistics ANAB KUMAR SEN
Asymptotic distribution of estimates	of $L_2$ norms of the deviations $A_1$	of density function LDO JOSÉ VIOLLAZ
An adaptive orthogonal-se G. Le	eries estimator for probability in Anderson and Rui J.	y density functions P. DE FIGUEIREDO
Complete classes for sequ L. D. Brown,	ential tests of hypotheses A. Arthur Cohen and W.	E. Strawderman
Estimability in partitione		
Properties of some estima	ators for the errors-in-variabl V	les model Vayne A. Fuller
Parameter estimation of squares	autoregressive integrated p	processes by least NAO KAWASHIMA
Optimality of some weigh	ating and $2^n$ fractional factori CF	al designs HNG-SHUI CHENG
Orthogonal arrays with va	ariable numbers of symbols Cr	hing-Shui Cheng
	Notes	
Addendum to "Properties density"	s of Hermite series estimati	ion of probability BERT G. WALTER
	Hsu Ru	

# CATALOG OF PUBLICATIONS OF THE INSTITUTE OF MATHEMATICAL STATISTICS

## ANNALS INDEX

The Annals of Mathematical Statistics, Index to Volumes 1-31, 1930-60. Edited by J. Arthur Greenwood, Ingram Olkin and I. Richard Savage, 1962. Nonmember Subscriber Cost—\$15.00, Member Cost—\$7.00.

Current Index to Statistics: Applications, Methods and Theory, edited by Brian L. Joiner. Volumes 1-3, 1975-1977. Nonmember Subscriber Cost—\$18.00, Member Cost—\$9.00. Volume 4, 1978. Nonmember Subscriber Cost—\$22.00, Member Cost—\$11.00.

Order directly from Heebok Park, Treasurer, IMS Business Office, 3401 Investment Blvd., Suite 6, Hayward, California 94545.

## STATISTICAL RESEARCH MONOGRAPHS

This series is sponsored jointly by the Institute of Mathematical Statistics and the University of Chicago. Discount to members of IMS is 20 percent.

The passage problem for a stationary Markov chain by J. H. B. Kemperman, 1961, 127 pp. List price - \$7.00.

Statistical inference for Markov processes by Patrick Billingsley, 1961, 75 pp. List price—\$4.95.

**Sequential** identification and ranking procedures by Robert E. Bechhofer, **Jack** Kiefer and Milton Sobel, 1968, xvii+420 pp. List price-\$20.00.

The analysis of frequency data by Shelby J. Haberman, 1974, 432 pp. List price -\$15.00 (Available only as Midway Reprint Paperback)

**Order** directly from the University of Chicago Press, 11030 S. Langley Ave., **Chicago**, Illinois 60637.

### SELECTED TABLES IN MATHEMATICAL STATISTICS

This series of volumes is prepared by the Committee of Mathematical Tables of the Institute of Mathematical Statistics and is published by the American Mathematical Society for the IMS. Discount to members of IMS is 25 percent.

**Selected tables** in mathematical statistics, Vol. I, edited by H. L. Harter and **D. B. Owen**, 1970, vi+405 pp. \$13.20

**Selected tables in** mathematical statistics, Vol. II, edited by H. L. Harter and **D. B. Owen**, 1974, viii+338 pp. \$16.40

**Selected tables** in mathematical statistics, Vol. III, edited by H. L. Harter and **D. B. Owen** with J. M. Davenport, viii+424 pp. \$21.60

**Selected tables** in mathematical statistics, Vol. IV, edited by D. B. Owen and R. E. Odeh with J. M. Davenport, x+309 pp. \$18.00

**Selected tables** in mathematical statistics, Vol. V, edited by D. B. Owen and R. E. Odeh with J. M. Davenport, viii+263 pp. \$16.80

**Send prepaid orders** directly to the American Mathematical Society, P.O. Box 1571, **Providence**, Rhode Island 02901, Attention: Sales Department.