

For those of you who need to know what's happening in statistics . . .

The Institute of Mathematical Statistics
and
The American Statistical Association

announce publication of Volume 3 of

**CURRENT INDEX TO STATISTICS:
APPLICATIONS, METHODS AND
THEORY**

An annual computerized index to the statistical literature

Coverage — Over 5,000 articles in “core” and “related” journals for 1977 are indexed. Author index & index by key words. Example of subject index (complete reference to journal, volume, pages, etc., is given):

↖ *Important word*

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

↙ *Key word*

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; Robert M. Elashoff, Seymour Geisser, David Hoaglin, David L. Wallace

Subscription Rates — \$9.00 for members of the two sponsoring societies
\$12.00 for other individuals
\$18.00 for organizational/library subscriptions
(Volumes 1 & 2, covering 1975 and 1976 journals, available at the same rate.)

Send orders and remittance to —

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

THE ANNALS OF PROBABILITY

VOLUME 6

December, 1978

No. 6

Special Invited Paper

Central Limit theorems for empirical measures R. M. DUDLEY

Articles

- A uniform law of the iterated logarithm for classes of functions
R. KAUFMAN AND WALTER PHILIPP
- Controlled spin-flip systems LAWRENCE GRAY
- On generators of subordinate semigroups HENRYK GZYL
- Some local properties of Gaussian vector fields JACK CUZICK
- On semi-Markov and semi-regenerative processes II
DAVID McDONALD
- A weak convergence theorem with application to the Robbins-Monro
process GÖTZ D. KERSTING
- The birth and death chain in a random environment: instability and
extinction theorems WILLIAM C. TORREZ

Short Communications

- Stochastic partial ordering T. KAMAE AND U. KRENGEL
- Maximum in the Lévy-Baxter theorem for Gaussian random fields
TAKAYUKI KAWADA
- Conditional expectation and ordering EP DE JONGE
- An inequality in p -functions DAVID MOUNTFORD
- An inverse balayage problem for Brownian motion
A. F. KARR AND A. O. PITTINGER

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.

Order directly from Robert Elashoff, Treasurer, 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 (Midway Reprint paperback only)

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 + 388 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.