## 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—\$10.00

Current Index to Statistics: Applications, Methods and Theory, edited by Brian L. Joiner. Volumes 2-5, 1975-77. Nonmember Subscriber Cost—\$22.00, per vol. Member Cost—\$11.00, per vol. Volumes 6-7, 1978-79. Nonmember Subscriber Cost—\$26.00, per vol. Member Cost—\$13.00, per vol.

Order directly from Heebok Park, 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. OUT OF PRINT.

Statistical inference for Markov processes by Patrick Billingsley, 1961, 75 pp. List price—\$5.50 (Midway Reprint paperback only).

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 50%.

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, vii + 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 and J. M. Davenport, viii + 263 pp. \$16.80.

Selected tables in mathematical statistics, Vol. VI, edited by W. J. Kennedy and R. E. Odeh with J. M. Davenport, 1980, viii + 207 pp. \$12.80.

Selected tables in mathematical statistics, Vol. VII, edited by W. J. Kennedy and R. E. Odeh with J. M. Davenport. 1981, viii + 256 pp. \$12.40.

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

### THE ANNALS OF PROBABILITY

Vol. 9	October 1981	No. 5
Vol. 9	October 1981	No. 5

Special Invited Paper		
Some results on the LIL in Banach space with applications to weighted empirical processes V. Goodman, J. Kuelbs, and J. Zinn		
Articles		
Generalized random walk in a random environment  Steven A. Kalikow Regular birth times for Markov processes A. O. Pittenger Splitting at backward times in regenerative sets Olav Kallenberg A global intrinsic characterization of Brownian local time  Edwin Perkins Some conditional limit theorems in exponential families Lars Holst Lipschitz smoothness and convergence with applications to the central limit theorem for summation processes Roy V. Erickson		
On Edgeworth expansions in Banach spaces F. Götze Laws of the iterated logarithm for order statistics of uniform spacings Luc Devroye		
Short Communications		
Limit theorems on order statistics		
Generalized Poisson shock models  A geometrical representation of a stochastic matrix: theorem and conjecture  Conditional distributions and orthogonal measures  JOHN P. BURGESS AND DANIEL R. MAULDIN  A note on regular conditional probabilities in Doob's sense  D. RAMACHANDRAN		
_ :		



# Wadsworth Inc. Announces The Wadsworth International Statistics / Probability Series

Wadsworth Inc., the most successful American publisher of college statistics and mathematics texts, is pleased to announce a new advanced book series in statistics and probability. This series features outstanding senior/graduate-level textbooks and professional works. The following board of editors will approve all publications in the series:

Peter J. Bickel University of California

William S. Cleveland
Bell Laboratories

Richard M. Dudley Massachusetts Institute of Technology

The combined sales staffs of Wadsworth Inc. will provide world-wide distribution of all publications.

If you plan to write an advanced book in statistics or probability, we would like to hear from you. Write:

Editor, Wadsworth International Group,
10 Davis Drive, Belmont, CA 94002, U.S.A.