Subscription rates

Subscriptions (post free) for the 1970 volume of the Advances are:

U.S. \$13.00, £stg. 5.5.0, \$A. 11.00, for libraries and institutions; U.S. \$8.00, £stg. 3.6.0, \$A. 7.20, for individuals belonging to a recognised scientific society. All enquiries about the Advances, as well as other subscriptions, should be sent to the Editorial Assistant, Miss M. Hitchcock, Department of Probability and Statistics, The University, Sheffield, S3 7RH, England. The price of back numbers is U.S. \$14.50, £stg. 6.0.0., \$A. 13.00 per volume. Cheques, money orders, etc. should be made out to Applied Probability; cheques on U.S., U.K. and Australian banks will be acceptable.

Notes for Contributors

It is a condition of publication in the Advances in Applied Probability that papers shall not previously have appeared elsewhere, and will not be reprinted without the written permission of the Trust. The copyright of all published papers shall be vested in the Trust. It is the general policy of the Advances not to accept for publication papers which cannot appear in print within 15 months of their date of submission. Authors will receive 100 reprints of their papers free, and joint authors a proportional share of this number. Additional reprints will be provided at cost.

Manuscripts should be written in English or French; manuscripts in other languages may be accepted by the Editors, but will appear (subject to the author's agreement) in English or French translation in the Advances.

It will be of help to the Editors if the following conventions are adopted:

- a) The manuscript should be typewritten, using double spacing, on one side of the paper only. The original and a copy, may be submitted to any Editor; a duplicate of the covering letter should, however, be sent to the Editor-in-Chief.
- b) References should be indicated in the text by the name of the author(s) and the date. thus: Feller (1961), and the full references listed at the end of the article in alphabetical order, Journal references should include the title of the article cited, the title of the journal (abbreviated in the style of the International Journal of Abstracts: Statistical Theory and Method) the volume, and inclusive page numbers. Book references should give the full title, the publisher, and the place of publication. For example:

Feller, W. (1961) A simple proof of renewal theorems. Comm. Pure Appl. Math. 14, 285-293. Robinson, E. A. (1959) An Introduction to Infinitely Many Variates. Griffin, London.

c) Type faces should be carefully distinguished on the manuscript using the following standard methods of marking:

Italic capitals (T, I, R) and lower case letters (t, i, r) should be underlined once, e.g. T, I, R, t, i, r.

Bold-face capitals (T, I, R) and lower case letters (t, i, r) should have a curly underline, e.g.

Greek characters (a, β, θ) and script letters $(\mathcal{J}, \mathcal{J}, \mathcal{R})$ should be carefully drawn and identified when first used by a marginal note of the form 'a—lower case Greek alpha' or 'A-script R'.

d) Indices and subscripts should be clearly distinguished, using the marking 4, 4 where

Authors will receive only first proofs for correction; charges will be made for excessive alteration to these.

Printed in Israel at the Jerusalem Academic Press, P.O.B. 2390, Jerusalem.

CONTENTS

Number 2 Autumn 1970

HARRY KESTEN	179	Quadratic transformations: a model for population growth. II
TAKEO MARUYAMA	229	Stepping stone models of finite length
JOHN BATHER	259	Optimal stopping problems for Brownian motion
T. GERGELY, I. N. TSUKANOW AND I. I. YEZHOW	287	Markov chains governed by complicated renewal processes
SIDNEY I. RESNICK AND MARCEL F. NEUTS	323	Limit laws for maxima of a sequence of random variables defined on a Markov chain
LAJOS TAKÁCS	344	On the distribution of the maximum of sums of mutually independent and identically distributed random variables
DONALD L. IGLEHART AND WARD WHITT	355	Multiple channel queues in heavy traffic II: sequences, networks, and batches
WARD WHITT	370	Multiple channel queues in heavy traffic. III: random server selection

Volume 2