# An Introduction to Numerical Linear Algebra 

## L. FOX

This book covers the practice of matrix algebra and manipulation, and the theory and practice of direct and iterative methods for solving linear simultaneous equations, inverting matrices, and determining the latent roots and vectors of matrices. '. . . an excellent textbook....' COMPUTER BULLETIN 50 s net 2 textfigures (Monographs on Numerical Analysis)

## The Open Mapping and Closed Graph Theorems in Topological Vector Spaces

TAQDIR HUSAIN

This book describes the progress made in extending two of the deepest results of Functional Analysis. It is intended mainly for the research worker and the advanced graduate student, although less advanced students could profit by it. Paper covers 30 s net (Oxford Mathematical Monographs)

## Numerical Solution of Partial Differential Equations

G. D. SMITH

The author has composed his text to avoid the inadequate treatment often found in general books and the high-powered approach of advanced treatises. The various methods of solution and analyses have been illustrated through a series of worked examples. 46 line diagrams 25 s net
(Oxford Mathematical Handbooks)

## Meromorphic Functions

W. K. HAYMAN, F.R.S.

'As a lucid and connected account of recent work in this field, the book will be of immense value to the young research worker, since it appears that the methods are far from being exhausted, either in their power to afford new results or in co-ordinating a variety of special cases into a simpler and more general theory.' NATURE 63 s net
(Oxford Mathematical Monographs)

# Theory and Practice of the Evaluation of Measurements 

L. JÁNOSSY

This is a book about the statistics of physical experiments by a distinguished Hungarian experimental physicist. In it he gives a careful analysis of the principles to be employed in evaluating the results of measurements and illustrates them by examples taken from actual laboratory material. Illustrated $£ 5$ net (International Series of Monographs on Physics)

## Homographies Quaternions \& Rotations

PATRICK DU VAL

This monograph brings together the theories of onedimensional homographies, of unitary matrices of order 2 , of quaternions, of rotations in three and four dimensions, and of regular polyhedra and polytopes, in order to make clear the complex of relations and correspondences between these different disciplines. Illustrated Paper covers 35s net (Oxford Mathematical Monographs)

## Mathematics in

 Aeronautical ResearchK. N. DODD

' . . . a welcome addition to mathematical literature. On the whole, the author succeeds in his purpose and successfully conveys the links between a number of branches of applied mathematics and physics which must be appreciated in order to translate a physical situation into mathematical form.' BULLETIN OF THE INSTITUTE OF PHYSICS AND THE PHYSICAL SOCIETY 47 line and half-tone illustrations 21 s net (Oxford Mathematical Handbooks)

## The Laminar Boundary Layer Equations

N. CURLE
'. . . well set out in lucid style and can be recommended to anyone interested in solving boundary-layer problems without a high-speed computer or in developing approximate methods.' MATHEMATICAL GAZETTE 30s net (Oxford Mathematical Monographs)

## OXFORD

UNIVERSITY PRESS

# Proceedings of the Glasgow Mathematical Association 

Editorial Committee: R. A. Rankin, R. P. Gillespie, T. S. Graham, A. Geddes Department of Mathematics, The University, Glasgow

Volume 7. Part 1. January 1965
D. A. R. WALLACE. On the commutativity of the radical of a group algebra.
S. SANKARAN. Continuous sums of measures and continuous spectra.

PAWAN KUMAR KAMTHAN. Proximate order $(R)$ of entire functions represented by Dirichlet series (IV).
LOWELL W. BEINEKE and FRANK HARARY. Inequalities involving the genus of a graph and its thicknesses.
ROBERT BUMCROT. On lattice complements.
J. H. E. COHN. Lucas and Fibonacci numbers and some diophantine equations.
R. C. THOMPSON. Generalisations of a well-known result in matrix theory.
J. W. MOON. On minimal $n$-universal graphs.
T. T. WEST. The spectra of compact operators in Hilbert spaces.
E. M. WRIGHT. An extension of a theorem of Gordon.

JET WIMP. Two integral transform pairs involving hypergeometric functions.
PREM NARAIN. A note on an asymmetric mixed boundary value problem for a half space with a cylindrical cavity.
I. N. SNEDDON. The stress on the boundary of an elastic half-plane in which body forces are acting.
W. A. AL-SALAM and L. CARLITZ. A note on the Hardy-Hille and Mehler formulas.

The proceedings are published twice yearly, four parts comprising a volume of about
200 pages. The subscription price per volume is $£ 3$ ( $\$ 10.00$ ), post free, payable in advance.
Single parts may be supplied at a cost of $15 s$. ( $\$ 2.50$ ) net.
Inquiries and subscription orders should be sent to the publishers
OLIVER and BOYD LTD., Tweeddale Court, 14 High Street, Edinburgh, 1

## STATISTICAL THEORY AND METHOD ABSTRACTS

## A Journal of the International Statistical Institute

The object of this abstracting service is to cover published papers concerned with statistical theory, including relevant aspects of probability and mathematical methods, and new contributions to statistical method. These abstracts provide valuable information on new developments for studying problems in many fields; for example, reliability, quality control, experiments, surveys, queueing, congestion and forecasting. Approximately 500 journals are scanned for suitable papers. Abstracts are also prepared from collections of papers such as reports of conferences, symposia and seminars: technical reports of experiment and research stations are covered.

Approximately 400 words long, these literary informative abstracts are written in English; the language of the original paper is indicated. The heading not only gives the name and address of the author together with the journal in which the paper was published but a note is given of references, tables, etc.

The revised classification scheme consists of three parts. The pages of the journal are colour-tinted in groups to provide visual indication of twelve main sections. Each section is further sub-divided to indicate the main topic of the paper; a secondary number denotes the most important additional topic referred to by the author. A special table in each part links together these two classifications. This scheme is arranged to facilitate transfer to punch cards. When papers are concerned with new statistical tables the relevant classification for the Greenwood/Hartley Guide (1962) is indicated in a special section.

The abstracts are numbered serially, the volume number being inserted as a prefix. The journal is published four times a year and contains approximately 1,250 abstracts. Relevant indexes are published in each issue and combined in a yearly supplement.

Annual Subscription<br>Single Number<br>Loose Leaf Binders for Single<br>Abstract Sheets

$£ 7,10$ s. (U.S.A. $\$ 24.00$ )
£2, 5s. (U.S.A. \$7.00)
16s. 3d. including postage and packing.

