

G. BELL AND SONS, LTD.

ELECTROMAGNETISM. By H. M. MACDONALD, O.B.E., M.A., F.R.S., late Professor of Mathematics in the University of Aberdeen. Demy 8vo. 12s. 6d. net.

The object of the book is the development from the fundamental laws of electromagnetism of a consistent scheme for the representation of electrical phenomena, and the derivation of the more immediate consequences of the fundamental laws.

Nature:—"Certainly one of the most striking books on electromagnetic theory published within recent years. . . . Quite apart from the frequently novel methods employed, the book is a very useful compendium of recent work on electromagnetism. It is well printed and produced and is commendably free from misprints, considering the often complicated character of the formulae employed."

INVERSIVE GEOMETRY. By FRANK MORLEY, M.A., Sc.D., and F. V. MORLEY, D.Phil. Demy 8vo. 16s. net.

Mathematical Gazette:—"It would be superfluous to commend this book to geometers, for they will have ordered it by the first post, but all mathematicians will find here a great deal of amusing and exciting reading—where else, for instance, will the algebraist see the geometric meaning of the Lagrange resolvent? School libraries should buy it, for it would be a real revelation to a gifted sixth-former, and to many a mathematical master. The present reviewer owes already several hours of pure enjoyment to the authors and publishers."

ADVANCED TRIGONOMETRY. By C. V. DURELL, M.A., and A. ROBSON, M.A. Price 9s.

This book is a continuation of Durell and Wright's well-known *Elementary Trigonometry* (seventh edition, 5s.), and completes the school course for mathematical specialists. It is hoped that the volume will meet the need that teachers have long felt for a higher trigonometry on modern lines. A **Key** is issued which forms a supplementary teaching manual (15s. net).

ELEMENTARY CALCULUS. By C. V. DURELL, M.A., and A. ROBSON, M.A. Vol. I., 3s. 6d.; or with Appendix of Supplementary Exercises, 4s. 6d. Vol. II., 6s. 6d.; with Appendix, 7s. 6d.

The first volume of this new textbook by these well-known authors covers all that is required for "additional mathematics" in School Certificate examinations. Vol. II. deals comprehensively with all other Higher Certificate work, including distinction papers.

ADVANCED ALGEBRA. By C. V. DURELL, M.A., and A. ROBSON, M.A. Vol. I. 4s. 6d. Vol. II., 6s. Vol. III., 7s. 6d. Vols. II. and III. together, 12s. 6d.

A continuation of *A New Algebra for Schools*. Volume I. (by Mr Durell) deals comprehensively with **Higher Certificate** work up to, but *excluding*, the special requirements for the "distinction papers" and scholarship work. Volumes II. and III., in which Mr Robson has collaborated with Mr Durell, together cover the ground up to university entrance scholarship standard including some of the work, e.g., on Matrices, that might be done with advantage by the capable scholar.

YORK HOUSE, PORTUGAL STREET, LONDON, W.C.2.

BELL'S MATHEMATICAL SERIES

ADVANCED SECTION.

General Editor: WILLIAM P. MILNE, M.A., D.Sc.
Professor of Mathematics, Leeds University.

A FIRST COURSE IN NOMOGRAPHY. By S. BRODETSKY, M.A., B.Sc., Ph.D.,
Professor of Applied Mathematics at Leeds University. 2nd Edition,
revised. Demy 8vo. 10s. net.

Graphical methods of calculation are becoming of ever greater importance in theoretical and industrial science, as well as in all branches of engineering practice. Nomography is one of the most powerful of such methods. This book caters for both the practical man who wishes to learn the art of making and using nomograms, and the student who desires to understand the underlying principles.

ELEMENTARY TREATISE ON PURE MATHEMATICS. By N. R. CULMORE
DOCKERAY, M.A., Mathematical Master at Harrow School. Demy 8vo.
16s. net.

This book provides in one comparatively inexpensive volume a comprehensive course of elementary analysis suitable for scholarship candidates in schools and University students. It endeavours to combine rigour with simplicity and clear exposition. A feature is the large number of examples of which there are about 1500.

A FIRST COURSE IN STATISTICS. By D. CARADOG JONES, M.A., F.S.S.,
Lecturer on Social Statistics, Liverpool University. 6th Edition. Demy
8vo. 15s. net. Also in two parts.

Scottish Educational Journal:—"An admirable introduction. . . Mr Jones has done his work well. We trust his valuable book will have a large circulation. It deserves it."

**AN ELEMENTARY TREATISE ON DIFFERENTIAL EQUATIONS AND
THEIR APPLICATIONS.** By H. T. H. PIAGGIO, M.A., D.Sc., Professor
of Mathematics, University College, Nottingham. 10th Edition. Demy 8vo.
12s. net.

The earlier chapters contain a simple account of ordinary and partial differential equations, while the later chapters are of a more advanced character, and cover the Cambridge Mathematical Tripos, Part II., Schedule A, and the London B.Sc. The number of examples, both worked and unworked, is very large, and all the answers are given.

Mathematical Gazette:—"One of the best mathematical text-books in the language."

ANALYTICAL CONICS. By D. M. Y. SOMMERVILLE, D.Sc. 4th Edition. Demy
8vo. 15s. net.

Nature:—"One of the most comprehensive English treatises. The author shows a wide, detailed, and accurate knowledge of the subject."

A Professor of Mathematics writes:—"The treatment is refreshingly novel, and in all cases the presentation is concise and lucid."

ELEMENTARY VECTOR ANALYSIS. By C. E. WEATHERBURN, M.A., D.Sc.,
Professor of Mathematics, University of Western Australia. 5th Edition,
Demy 8vo. 12s. net.

A simple exposition, showing how vector analysis may be employed with advantage in geometry and mechanics.

Nature:—"An excellent introduction to the subject."

ADVANCED VECTOR ANALYSIS. By C. E. WEATHERBURN, D.Sc. 3rd Edition.
Demy 8vo. 15s. net.

Here the wider problems involving functions of several independent variables are discussed, the requisite vector analysis being developed in four chapters. The remaining six form an adequate introduction to Mathematical Physics.

G. BELL & SONS, LTD., PORTUGAL ST., LONDON, W.C.2