

G. BELL AND SONS, LTD.

ELEMENTS OF THE MATHEMATICAL THEORY OF LIMITS. By J. G. LEATHAM, Sc.D., late Fellow of St John's College, Cambridge. Demy 8vo. 14s. net.

The work was substantially complete at the time of the author's death, and has been printed under the supervision of Professor H. F. Baker, F.R.S., of Cambridge, and Professor E. T. Whittaker, F.R.S., of Edinburgh. It gives, in an eminently practical and readable form, a sound introduction to University mathematics. A large number of examples is provided, and the solutions are indicated.

Journal of Education:—"Will be found of the greatest value in enabling the student from the outset to acquire correct and well-defined ideas on this important subject. It is obvious that behind the book lies a large amount of teaching experience."

A TREATISE ON HYDROMECHANICS. Part I. **HYDROSTATICS.** By W. H. BESANT, Sc.D., F.R.S., and A. S. RAMSEY, M.A. 9th Edition, revised. Demy 8vo. 7s. 6d. net.

Part II. **HYDRODYNAMICS.** By A. S. RAMSEY, M.A. 2nd Edition, revised. Demy 8vo. 15s. net.

This book, originally published in 1859, has long been recognised as the standard introductory book on the subject.

Mr Ramsey co-operated with Dr Besant in preparing a new edition of Part I., and re-wrote Part II. with the help of the latter's materials. He has now prepared a further revision of Part I., paying attention to the change in outlook in mathematical studies in Cambridge that began with the abolition of the order of merit in the Tripos.

PROJECTIVE VECTOR ALGEBRA. An Algebra of Vectors, independent of the axioms of Congruence and of Parallels. By L. SILBERSTEIN, Ph.D. 7s. 6d. net.

Builds up an algebra of Vectors on the assumptions of projective geometry only, i.e., independent of measurements by rigid transfers. The exposition is simple enough to be easily followed without advanced mathematical training. The method worked out can be applied to cover the whole field of projective geometry.

London Mercury:—"A very original and striking contribution to a fascinating branch of mathematics."

SYNOPSIS OF APPLICABLE MATHEMATICS with Tables. By L. SILBERSTEIN, Ph.D., Demy 8vo. 16s. net.

Times Educational Supplement:—"Should prove of the greatest value to mathematicians and students. While the first part, included for the sake of completeness, contains logarithmic tables and other matter easily available elsewhere, the second part puts together a number of mathematical tables and formulæ for which reference would otherwise have to be made to a variety of mathematical treatises. The extent of ground covered in small compass is very great. . . . The value of such a compilation is obvious, and the indebtedness of mathematicians to Dr Silberstein is in consequence very great."

ANALYTICAL GEOMETRY OF CONIC SECTIONS AND ELEMENTARY SOLID FIGURES. By A. BARRIE GRIEVE, M.A., D.Sc. 9s. Also Part I., separately. 5s.

The first part is devoted to setting out in as simple and attractive a way as possible the easier properties of Conic Sections. The second gives an introduction to Solid Geometry, and includes a simple discussion of Quadric Surfaces, referred to their Principal Axes. A short chapter on Curvature has also been included.

Nature:—"The book can be confidently recommended for boys reading for scholarships and first-year students at universities."

READABLE RELATIVITY. A Book for Non-Specialists. By CLEMENT V. DURELL, M.A. Crown 8vo. Illustrated. 3s. 6d. net.

Discovery:—"A very fine piece of work, explanatory, informed, containing a good deal of wise writing, written by an educated man for educated people who are not necessarily mathematicians. . . . The ten chapters deal with the progress of science, 'Alice through the looking-glass,' the velocity of light, clocks, algebraic relations, separations of events, the fourth dimension, mass and momentum, general relativity, and the Einstein tests."

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, and the object of this book is to explain what nomograms are and how they can be constructed and used. The 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. It is illustrated by 64 figures, most of which are actual nomograms, their construction being analysed in the text. In addition there are numerous exercises illustrative of the principles and methods.

A FIRST COURSE IN STATISTICS. By D. CARADOG JONES, M.A., F.S.S.,
Lecturer on Social Statistics, Liverpool University. 2nd Edition, revised.
Demy 8vo. 15s. net.

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. 6th Edition, revised and enlarged. Demy 8vo. 12s. net.

In the new edition the main change is the addition of a long new chapter dealing with miscellaneous methods. The other parts of the book have been revised, and a few more examples added.

Mathematical Gazette:—"With a skill as admirable as it is rare, the author has appreciated in every part of the work the attainments and needs of the students for whom he writes, and the result is one of the best mathematical text-books in the language."

THE ELEMENTS OF NON-EUCLIDEAN GEOMETRY. By D. M. Y. SOMMERVILLE, M.A., D.Sc., Professor of Mathematics, Victoria University College, Wellington, N.Z. 7s. 6d. net.

Nature:—"An excellent text-book for all students of Geometry."

Mathematical Gazette:—"A useful and stimulating book."

ANALYTICAL CONICS. By D. M. Y. SOMMERVILLE, D.Sc. 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."

AN INTRODUCTION TO THE STUDY OF VECTOR ANALYSIS. By C. E. WEATHERBURN, M.A., D.Sc., Professor of Mathematics, Canterbury University College, Christchurch, N.Z. 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. 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