

BELL'S MATHEMATICAL SERIES

ADVANCED SECTION

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

A FIRST COURSE IN NOMOGRAPHY. By S. BRODETSKY, M.A., B.Sc., Ph.D.,
Emeritus Professor of Applied Mathematics at Leeds University. 4th Edition.
Demy 8vo. 10s. 6d. 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.

A FIRST COURSE IN STATISTICS. By D. CARADOG JONES, M.A., F.S.S.,
formerly Reader in Social Statistics, Liverpool University. 10th Edition. Demy
8vo, 17s. 6d. net. Also Part I, 8s. 6d. net.

Mathematical Gazette :—" An excellent ' first course ' . . . the examples are well chosen . . . the work is clearly expressed."

The 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., *formerly Professor of Mathematics, University of Nottingham. 22nd Edition.* Demy 8vo. 16s. 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 textbooks in the language."

ANALYTICAL CONICS. By D. M. Y. SOMMERVILLE, D.Sc. 10th Edition.
Demy 8vo. 18s. 6d. 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.,
formerly Professor of Mathematics, University of Western Australia. 15th Edition. Demy 8vo. 15s. 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. 8th Edition. Demy 8vo. 18s. 6d. 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

G. BELL AND SONS, LTD.

ALGEBRAIC GEOMETRY. By C. V. DURELL, M.A. *In preparation.*

The purpose of this volume, one of the most important to come from this outstanding writer of mathematical textbooks, is to provide a course in school geometry at the higher level corresponding to what is called the *Second Course* in the Report issued by the Mathematical Association on "The Teaching of Higher Geometry in Schools" (1953).

It gives an account of the simplest system of abstract geometry, *algebraic projective geometry*, and apart from one chapter which indicates natural extensions to solid geometry, the subject-matter is restricted to plane geometry. The two concluding chapters show how the language of metrical geometry can be introduced into projective geometry.

No textbook can replace the teacher, but it is hoped that the treatment will enable students to read the book without making excessive demands on the limited time the teacher has available for the mathematical specialist. *A book of skeleton solutions or brief hints* will be issued and it is suggested that students should have access to it.

ADVANCED TRIGONOMETRY. By C. V. DURELL, M.A., and A. ROBSON, M.A. 12th Edition. 12s.

Mathematical Gazette :—"This is not the old familiar track, with just a bridge strengthened here, a pitfall avoided there, and notice-boards everywhere: the ground has been surveyed afresh, and an original and inspiring course has been planned. . . . The combination of enterprise and experience which we associate with each of the authors individually reaches a remarkable pitch in this book."

ADVANCED ALGEBRA. By C. V. DURELL, M.A., and A. ROBSON, M.A.

Vol. I: 15th Edition, 7s. Vol. II: 8th Edition, 7s. 6d. Vol. III: 6th Edition, 8s. 6d.

Short books of **Hints for Volumes II and III**, 2s. 6d. net each.

Volume I (by Mr. Durell) deals comprehensively with *Advanced Certificate* work up to, but excluding, the special requirements for 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.

FURTHER ELEMENTARY ANALYSIS. By R. I. PORTER, M.A. 3rd Edition. 21s. net.

A continuation of *Elementary Analysis* by A. Dakin and R. I. Porter, and completes a two-year Sixth Form course in Pure Mathematics suitable for all but the mathematical specialist. *A Senior Mathematics Master* writes :—"I have been teaching now for 40 years. All that time I have been looking for a good Analysis book. At last, I think, I have found it. Please pass on my congratulations and thanks to Mr. Porter for giving us such a fine textbook."

MATHEMATICS AND THE IMAGINATION. By E. KASNER and J. NEWMAN. 3rd Edition. 16s. net.

School Science Review :—"Makes fascinating reading and the book—a fine prize for the mathematically inclined Sixth-Former—may worthily occupy a place on the shelf by the side of, say, Rouse-Ball's *Mathematical Recreations*. . . . Get it for the School Library—but read it yourself first."

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