NUMERICAL TRIGONOMETRY

By R. Walker, M.A., Senior Mathematics Master, Stowe School.

This book has been written to give an early introduction to Trigonometry to those taking the subject for the "O" Level examination of the G.C.E. The increasing number of teachers who favour Alternative syllabuses should therefore find this book particularly useful. The contents have been planned so that either the sine ratio or the tan can be introduced first. A final chapter provides material for pupils offering Additional Mathematics.

Ready November   About **10s. 6d.**

CALCULUS
Volumes I and II

By D. R. Dickinson, M.A., Ph.D., Head of the Mathematics Department, Bristol Grammar School.

The author has provided a course in Calculus which may be studied by the pupil with a minimum of help and guidance from the teacher. The time that can be devoted by the teacher to the Mathematics specialist being often severely limited, this textbook should therefore be a valuable addition to what can be accomplished in the classroom.

While concerned primarily with manipulative techniques the treatment is sufficiently rigorous to meet all present-day requirements. The first volume covers "A" Level G.C.E. syllabuses and most scholarship syllabuses, and it will be found that a minimum "A" Level course can be isolated from the text with little loss of continuity.

In the second volume the author has continued the study of the calculus up to—and in the later chapters—somewhat beyond the level required for all scholarship examinations. These later chapters have been added to increase the general utility of the book and to make it suitable for a first course at University level. At the same time topics have been chosen which may profitably be studied by successful candidates during the period between gaining admission and entering a University.

Ready December   Volume I, about **16s. 6d.**
                     Volume II, about **13s. 6d.**

GEORGE G. HARRAP & CO. LTD
182 High Holborn London W.C.1

ELEMENTS OF PARTIAL DIFFERENTIAL EQUATIONS

Ian N. Sneddon
Simson Professor of Mathematics, University of Glasgow

'This new volume in the International Series in Pure and Applied Mathematics approaches the solution of partial differential equations through physics and engineering, and yet provides a sound, rigorous and up-to-date treatment of the subject that will satisfy most mathematicians. A modern outlook enlivens the book, and the many examples from recent work enrich it. A notable feature of the book . . . is the large number of problems provided for the student. Another attractive feature is the use of vector calculus throughout. It is an addition to mathematical literature that will be widely welcomed.'

Bulletin of the Institute of Physics

350 pages   *9 × 6 inches*   *56s 6d*

---

other new mathematical books

Mathematics and Computers
Stibitz and Larivee
37s 6d

The problems and methods of the applied mathematician are studied in this new book, which examines the uses and limitations of computing devices for solving problems in business, industry, science and engineering.

Applied Probability
American Mathematical Society vii
37s 6d

Nine papers given at a symposium of the American Mathematical Society in April 1955 at Brooklyn Polytechnic Institute. They are concerned with diffusion theory, theory of turbulence and probability in classical and modern physics.

Numerical Analysis
Kunz *60s*
(November)

The purpose of this book is to develop a sound understanding of the use of finite difference methods in obtaining numerical solutions to problems in applied mathematics.

McGraw-Hill Publishing Company Limited

An Analytical Calculus, IV

E. A. MAXWELL

This is the final volume of a series covering all stages of development of the Calculus, from the last year at school to degree standard. The books are written for students of science and engineering as well as for specialist mathematicians.

Ready autumn, About 25s. net

Digital Computers

R. K. LIVESLEY

Mr Livesley begins his introductory account of digital computers with a discussion of 'programming'; he then considers systems of number storage, how the labour of building programmes is reduced by standard 'library' routines, and, finally, the problems of applying computers to engineering calculations. CAMBRIDGE ENGINEERING SERIES. *8s. 6d. net*

Lie Groups

P. M. COHN

An introduction from the algebraic standpoint to the theory of Lie groups, and especially the fundamental theorems establishing the connexions between Lie groups and Lie algebras. A book for research workers in other branches of mathematics who wish to follow the basic notions of Lie group theory. No. 46 in the series CAMBRIDGE MATHEMATICAL TRACTS. *22s 6d. net*

CAMBRIDGE UNIVERSITY PRESS
BENTLEY HOUSE, 200 EUSTON ROAD, LONDON, N.W.1

Geometrical Drawing

By GEORGE PEARSON
Senior Handicraft Master at the Lawrence Sheriff School, Rugby.

Size $9\frac{1}{2}'' \times 6''$

Pp. 128, with 224 text-figures
12s. 6d.

The aim of the book is to provide a course in Geometrical Drawing which will lead to work at and beyond the Ordinary Level of G.C.E. It covers the constructions that are used later in Machine, Architectural or Building Drawing. As far as is possible each construction is introduced with a reasonable explanation of why it works— the student is encouraged to link the drawing and formal geometry courses, but this is not laboured.

The book is divided into two sections, Plane and Solid Geometrical Drawing. At the end of each are test-papers consisting of questions set in the General Certificate of Education.

A companion book on Machine Drawing is in active preparation.

OXFORD
UNIVERSITY PRESS
EDUCATION DEPT. OXFORD

Solid Geometry

By J. S. HAILS
Goldsmiths' College, London, and

E. J. HOPKINS
Assistant Master at the Lower School of John Lyon, Harrow.

Pp. 196, with 106 text-figures
13s. 6d. net.

The aim of this book is to give an account of solid geometry suitable for Sixth Form courses. All the standard properties of the relationships of points, lines, and planes are included. When these have been established the authors discuss polyhedra and then pass on to a treatment of orthogonal projection. There is a full discussion of the cylinder, cone, and sphere and of the right circular cone. A final chapter is devoted to spherical geometry. Throughout the text there are numerous worked examples and plenty of questions for students to answer both of the authors' own devising and drawn from the papers set by examining boards at A level.

OXFORD
UNIVERSITY PRESS
EDUCATION DEPT. OXFORD