NOTEBOOK OF MATHEMATICS



4/_ net

COOK

Reprinted 1941 Reprinted 1944 Reprinted 1947

SIR ISAAC PITMAN & SONS, Ltd.
PITMAN HOUSE, PARKER STREET, KINGSWAY, LONDON, W.C.2
THE PITMAN PRESS, BATH
PITMAN HOUSE, LITTLE COLLINS STREET, MELBOURNE
UNITEERS BUILDING, RIVER VALLEY ROAD, SINGAPORE
7 BECKETTS BUILDINGS, PRESIDENT STREET, JOHANNESBURG

ASSOCIATED COMPANIES
PITMAN PUBLISHING CORPORATION
2 WEST 45TH STREET, NEW YORK
205 WEST MONROE STREET, CHICAGO

SIR ISAAC PITMAN & SONS (CANADA), Ltd. (INCORPORATING THE COMMERCIAL TEXT BOOK COMPANY) PITMAN HOUSE, 381-383 CHURCH STREET, TORONTO

PREFACE

THE following work is intended for Engineering Students preparing for National Certificate and Intermediate B.Sc. Examinations, and to supplement the usual text-books of Mathematics. For such students the saving of time is essential and some years of experience have shown that a volume containing the essential formulae and theorems of the syllabus, together with outlines of proofs and some applications of the subject, is of value in this way, both in the normal course of work and in revision.

In the cases of simpler formulae and theorems only a suggestion of the method of proof has been given, but the proofs of those branches of the subject which normally present the most difficulty have been given more fully. If two methods of proof are materially the same a reference only is given to the second. Worked illustrative examples are included where they are necessary as in "Methods of Integration," "Solution of Quadratic Equations," and elsewhere.

The author's thanks are due to the Syndics of the University Press, Cambridge, for their kind permission to reproduce the tables on pages 52–67 from Godfrey and Siddons's *Four-figure Tables*.

G. T. H. C.

FARNBOROUGH 1933.

CONTENTS

						PAG1
Preface .						ii
TRIGONOMETRICA	AL F	ORMU	LAE			1
ALGEBRA .						11
THE CALCULUS						19
Co-ordinate Geometry .						37
MATHEMATICAL '	Гаві	LES				51