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BY

WALTER BURTON FORD

JUNIOR PROFESSOR OF MATHEMATICS, THE UNIVERSITY OF MICHIGAN

AND

CHARLES AMMERMAN

THE WILLIAM McKINLEY HIGH SCHOOL, ST. LOUIS

EDITED BY

EARLE RAYMOND HEDRICK

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PREFACE

THIS book contains the Chapters on Solid Geometry from the Plane and Solid Geometry by the same authors. The general nature of the motives that led to the organization of the work are described in the preface of the complete edition, and it does not seem necessary to repeat all of them here.

In order to make it possible to refer to theorems proved in Plane Geometry, a complete syllabus of them, together with other necessary quotations, is printed on pages xxix–xlvi of this book. All references made in the text, and any other questions in Plane Geometry concerning which there may be doubt, can there be looked up by the student. An excellent opportunity for a review of Plane Geometry is afforded by this syllabus.

The book is distinguished by its acceptance of the principle of emphasis of important theorems laid down by the Committee of Fifteen of the National Education Association in their Report.* Thus, theorems of the greatest value and importance are printed in bold-faced type, and those whose importance is considerable are printed in large italics.

The Report just mentioned has been of great assistance, and its principles have been accepted in general, not in a slavish sense but in the broad manner recommended by the Committee itself. A perusal of the Report will give more fully and accurately than could be done in this brief preface, the considerations which led to the adoption of these principles, in particular, the principle of emphasis upon important theorems, both by the Committee and by the authors of this book.

* Printed as a separate pamphlet with the *Proceedings* for 1912. Reprinted also in *School Science*, 1911, and in *The Mathematics Teacher*, December, 1912.

The great excellence of the figures, particularly the very unusual and effective 'phantom' halftone engravings, deserves mention. These figures should go far toward relieving the unreality which often attaches to the constructions of Solid Geometry in the minds of students.

W. B. FORD,
CHAS. AMMERMAN,
E. R. HEDRICK, EDITOR.