

**THE ELEMENTS OF PLANE ANALYTIC
GEOMETRY: A TEXT-BOOK
INCLUDING NUMEROUS EXAMPLES
AND APPLICATIONS, AND ESPECIALLY
DESIGNED FOR BEGGINERS**

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The Elements of Plane Analytic Geometry: A Text-book Including Numerous Examples and Applications, and Especially Designed for Beginners by George R. Briggs

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GEORGE R. BRIGGS

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THE ELEMENTS
OF
PLANE ANALYTIC GEOMETRY.

A TEXT-BOOK

INCLUDING NUMEROUS EXAMPLES AND APPLICATIONS,
AND ESPECIALLY DESIGNED FOR BEGINNERS.

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SEVENTH EDITION, REVISED AND ENLARGED

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ASSISTANT PROFESSOR IN HARVARD UNIVERSITY.

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PREFACE.



THE design of this book is to present the elements of Analytic Geometry in a simple form, for the use of beginners. With this object in view, I have tried to make the demonstrations thorough, sometimes at the expense of brevity, in order that the student may never feel that the fundamental truths have been in part assumed. Therefore it may often seem best to the teacher to present special cases of the theorems as preparation for the general demonstrations of the book.

The text has been interspersed with a large number of examples and applications to familiar theorems of Geometry, often accompanied with the answers and hints for the solution, to stimulate the interest of the student and to teach him early how to work for himself. For the same purpose the chapter on Loci has been introduced.

Although this book has been prepared for the use of the Freshman Class in Harvard College, it is hoped that it may prove useful in Schools and Academies, and to any student

having a fair knowledge of Algebra and Trigonometry who wishes to prepare for a more extended course in Analytic Geometry.

I gladly acknowledge my indebtedness to Prof. Byerly for his kindness in reading the manuscript and for valuable suggestions. I have also freely used the works of Salmon, Todhunter, Puckle, and others.

G. R. BRIGGS.

CAMBRIDGE, April, 1881.

THE changes in the present edition consist mainly in the addition of a moderate amount of new matter. Almost all of this will be found after page 107, and in particular the last half of Chapter VIII and the whole of Chapter IX are new. It is hoped that in its present form the book will be found to cover the ground of the ordinary first course in analytic geometry as given in American colleges and technical schools, and that it will prove serviceable as a text-book in such courses.

MAXIME BŒCHER.

CAMBRIDGE, January, 1903.

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