

Excerpt from Principles of Modern Geometry: With Numerous Applications to Plane and Spherical Figures; And an Appendix Containing Questions for Exercise; Intended Chiefly for the Use of Junior Students The object of these pages is to lay down and illustrate the more elementary principles of those Geometrical Methods which, in recent times, have been so successfully employed to investigate the properties of figured space. The importance of the principles in question seems to render it advisable that the student should enter on their application at an early period of his progress; and, in accordance with this view, examples in Plane and Spherical Geometry are here given in considerable numbers. The scope and extent of the present work may be collected with tolerable accuracy from the Table of Contents; but it is necessary to state, for the information of the reader, the amount of Mathematical knowledge which he is supposed to possess. The preliminary Propositions required for the perusal of the first five Chapters are to be found, with few exceptions, in the first six Books of Euclid's Elements. Some occasional deductions, involving the formulæ of Plane Trigonometry, are appended to these Chapters in the form of Notes. In the sixth Chapter the fundamental notions of Algebraic Geometry are referred to. The seventh, eighth, ninth, and tenth Chapters presuppose an acquaintance with the ordinary principles of Spherical Trigonometry; and in the last two Chapters some of the properties of Curves of the second degree are assumed. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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