Analytic Geometry: And Principles of Algebra (Classic Reprint)

By Alexander Ziwet

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Analytic Geometry: And Principles of Algebra The present work combines with analytic geometry a number of topics traditionally treated in college algebra that depend upon or are closely associated with geometric representation. Through this combination it becomes possible to show the student more directly the meaning and the usefulness of these subjects. The idea of coordinates is so simple that it might (and perhaps should) be explained at the very beginning of the study of algebra and geometry. Real analytic geometry, however, begins only when the equation in two variables is interpreted as defining a locus. This idea must be introduced very gradually, as it is difficult for the beginner to grasp. The familiar loci, straight line and circle, are therefore treated at great length. Simultaneous linear equations present themselves naturally in connection with the intersection of straight lines and lead to an early introduction of determinants, whose broad usefulness is most apparent in analytic geometry. The study of the circle calls for a discussion of quadratic equations which again leads to complex numbers. The...

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