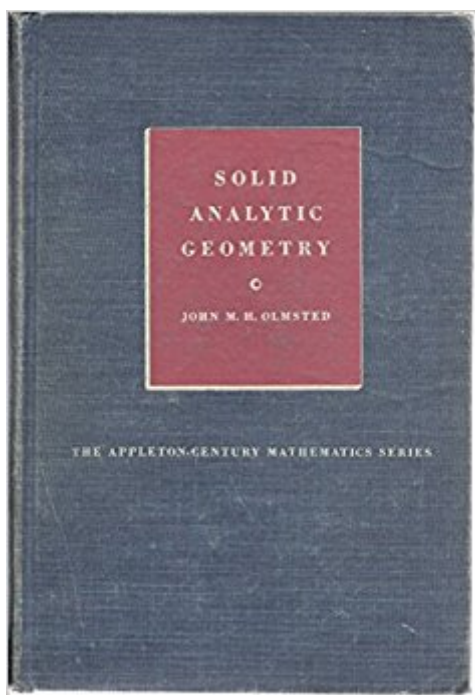


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# Solid Analytic Geometry



## Book Information

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## Customer Reviews

Solid Analytic Geometry, 1947 John Olmsted, Professor of Mathematics, Southern Illinois University As this book was published in 1947, the style of the presentation, concepts, and mathematical terms is of the 1940's period and some seems labored compared to mathematical texts of today. The thrust of the text is to examine the 17 Quadric Surfaces, presented in their canonical form, and in their general quadric form which includes rotation and translation. However, as is often the case, early presentations develop from a different path which provides the opportunity for a broader more rich view of the topic. The principal plane of the Quadric is developed from an idea of the diametral plane, and leads into eigenvalues and eigenvectors. The geometrical presentation is in contrast to the abstract vector space presentation of today's mathematics texts. Chapter 8 provides a table where invariants of the quadric surface are used to identify the canonical form. The contents of the book: Ch 1. Coordinates and Cosines Ch 2. Planes and Lines Ch 3. Determinants and Matrices Ch 4. Surfaces and Curves Ch 5. The Seventeen Quadric Surfaces Ch 6. The General Equation of the Second Degree Ch 7. Coordinate and Point Transformations Ch 8. Analysis of the General Equation of the Second Degree Ch 9. Matrix Algebra There are plenty of exercises and answers at the back of the book.

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