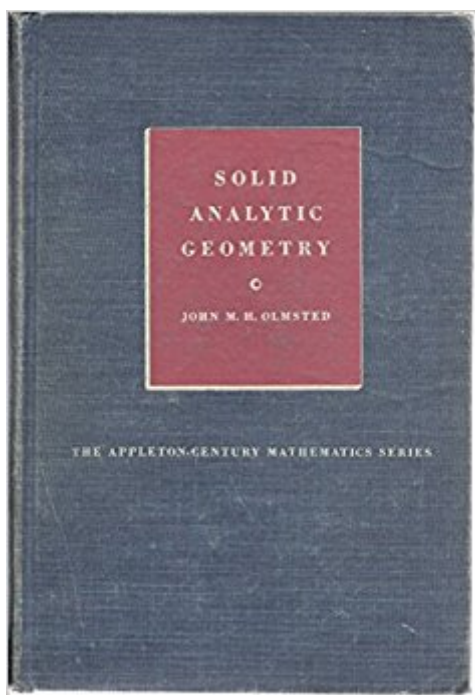The book was found

Solid Analytic Geometry

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Solid Analytic Geometry, 1947John Olmsted, Professor of Mathematics, Southern Illinois UniversityAs 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 identity the canonical form.The contents of the book:Ch 1. Coordinates and CosinesCh 2. Planes and LinesCh 3. Determinants and MatricesCh 4. Surfaces and CurvesCh 5. The Seventeen Quadric SurfacesCh 6. The General Equation of the Second DegreeCh 7. Coordinate and Point TransformationsCh 8. Analysis of the General Equation of the Second DegreeCh 9. Matrix AlgebraThere are plenty of exercises and answers at the back of the book.

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