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By Emil Artin

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This concise classic presents advanced undergraduates and graduate students in mathematics with an overview of geometric algebra. The text originated with lecture notes from a New York University course taught by Emil Artin, one of the preeminent mathematicians of the twentieth century. The *Bulletin of the American Mathematical Society* praised *Geometric Algebra* upon its initial publication, noting that "mathematicians will find on many pages ample evidence of the author's ability to penetrate a subject and to present material in a particularly elegant manner."

Chapter 1 serves as reference, consisting of the proofs of certain isolated algebraic theorems. Subsequent chapters explore affine and projective geometry, symplectic and orthogonal geometry, the general linear group, and the structure of symplectic and orthogonal groups. The author offers suggestions for the use of this book, which concludes with a bibliography and index.

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Editorial Review

From the Publisher

This classic text, written by one of the foremost mathematicians of the 20th century, is now available in a low-priced paperback edition. Exposition is centered on the foundations of affine geometry, the geometry of quadratic forms, and the structure of the general linear group. Context is broadened by the inclusion of projective and symplectic geometry and the structure of symplectic and orthogonal groups.

About the Author

One of the 20th century's most prominent mathematicians, Emil Artin (1898–1962) emigrated to the United States from Austria in 1936 and taught at Notre Dame, Indiana University, and Princeton before returning to Europe in the late 1950s. He wrote several books, including the Dover publications *Galois Theory* and *The Gamma Function*.

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