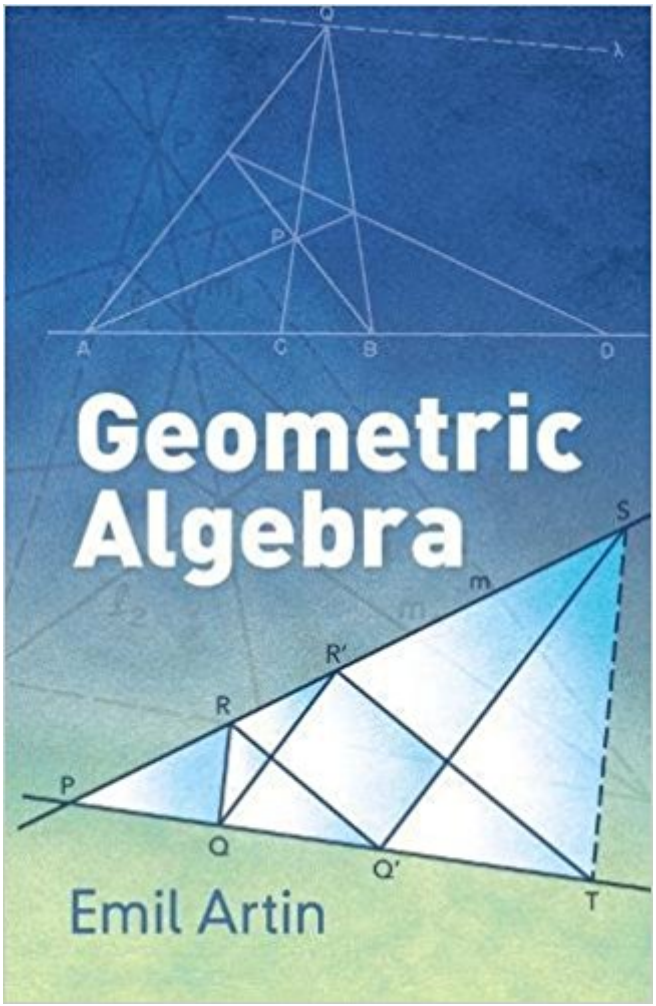
Geometric Algebra (Dover Books On Mathematics)



Synopsis

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.

Book Information

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Customer Reviews

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. --This text refers to the Hardcover edition.

One of the 20th century’s most prominent mathematicians, Emil Artin (1898â “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.

This is a fantastic book for anyone looking to get to grips with classical projective, symplectic and orthogonal geometry. The book needs some mathematical maturity, but very little background. It also describes the groups associated with these geometrys, and so serves as an excellent introduction to the Symplecti ORthogonal and Projective Linear groups.

Make sure you're buying the affordable Dover edition, not the overpriced Wiley edition !

None of these Wiley texts are for learning the subject by the standards of today. If you wish to understand the origins of branches of mathematics or would like to have an accurate understanding of the mathematical foundation of physics, then these books are for you. They are dated and difficult to read, but if you wish to have a better understanding of mathematics other than the often times socially distorted material you learn in the classroom, these are for you. It's an excellent introduction to Geometric Algebra, but the insane price for such a short book that does not go all that far into depth is just not worth it. It's 5 stars if you can buy a used one, 4 stars for the insane price of a new one. I would consider this book a luxury buy, but worth it if you're serious.

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