



Projective geometry Volume 1

By Oswald Veblen

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 110 pages. Dimensions: 9.7in. x 7.4in. x 0.2in. This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1910 edition. Excerpt: . . . The coordinates of a double point $(xv\ x)$ must satisfy the equations $px_1\ ax_1\ bx_2$, $px\ cx_1\ dxr$ These equations are compatible only if the determinant of the system $3\ (a-p)c_1bx_20$, $cx_1(d-p)x_0$, vanishes. This leads to the equation $a-p\ b\ l\ c\ d--p$ for the determination of the factor of proportionality p . This equation is called the characteristic equation of the matrix representing the projectivity. Every value of p satisfying this equation then leads to a double point when substituted in one of the equations (3); viz. , if p , be a solution of the characteristic equation, the point $(xv\ ag\ (-b, a-pl)\ (d-pv-c)$ is a double point. In homogeneous coordinates the cross ratio $R(AB, CD)$ of four points $A\ (av\ a_3)$, $B\ (bv\ ft_2)$, $C\ (cv\ c_2)$, $D\ (dv\ d)$ is given by $(ac)\ (be)\ (ad)\ (bd)$ where the expressions (ac) , etc....



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