Principles of Geometry, Vol. 4 (Classic Reprint)

By H. F. Baker

Forgotten Books. Paperback. Condition: New. This item is printed on demand. 270 pages. Dimensions: 9.0in. x 6.0in. x 0.6in.Excerpt from Principles of Geometry, Vol. 4The present chapter consists of various examples of the interest and importance of the comparison of the geometry of spaces of different dimensions. The first section (pp. 1-32) is concerned with relations between theorems in to and in three dimensions. The second section (pp. 32-40) deals with the representation in four dimensions of some results belonging to ordinary space of three dimensions. The last section (pp. 40-64) deals with the employment of space of five dimensions for the consideration of properties arising both in three and in two dimensions. Some few references occur to space of any number of dimensions. Section I. Theorems Of Two And Three DimensionsThe conics touching the fives from six arbitrary lines of a plane. Let three lines, p, q, r, be given in a plane, as well as a fourth line containing two points, I, J; let any conic be drawn touching the four lines; let be the conic, through the points I, J, which contains the three intersections of the lines p, q, r; then this conic passes through the...

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