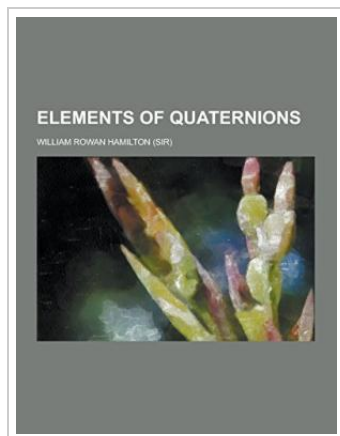



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Elements of Quaternions

By William Rowan Hamilton

Theclassics.us, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.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. 1866 edition. Excerpt: . = 0; but these are the vector parti of the three pairs of fourth proportionals to the three rectangular unit-lines, a, fi, y, taken in all possible orders; and the same evanescence of vector parte must evidently take place, if the three given Hues be only at right angles to each other, without being equally long. (2.) Continuing, however, for simplicity, to suppose that they are unit lines, and that the rotation round a from j8 to y is negative, as before, we see that we have now $r = 0$, and $e = 1$, in 297, (3.); and that thus the six fourth proportionals reduce themselves to their scalar parts, namely (here) to positive or negative unity. In this manner we find, under the supposed conditions, the values: VI. $\frac{1}{3}a - y = \frac{y}{3}$ $a = \frac{ay}{3} = +1$; VI. $\frac{1}{3}ra = \frac{a}{3}y$...



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