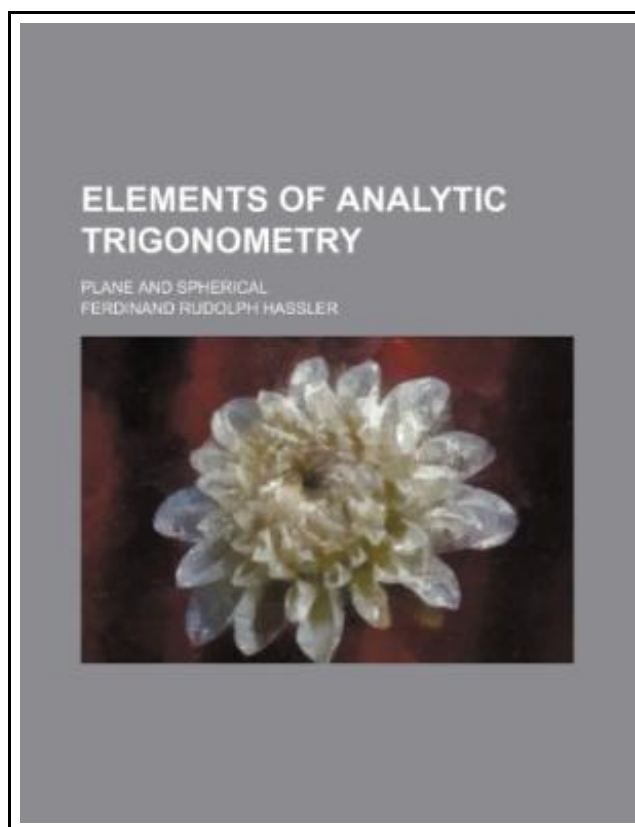# Elements of Analytic Trigonometry; Plane and Spherical (Paperback)

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Rarebooksclub.com, United States, 2012. 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 download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1826 Excerpt: .to calculate, may be reduced to an easy form for logarithmic calculation, in two different ways. These will be obvious, when we consider that the formulae Q, No. 4 and 3, give two different values for cosine B, the one in the sine, the other in the cosine, of the half angle. Taking, then, in the first place: cos B =1-2 sin8 4 B And substituting this value in the equation for cosine B, we have: b3 = c3 + a3--2ac + 4.c.a.sin B = (a- c)-+ 4.a.c.sin3 $ B And using (a co c) as a factor common to both the right hand terms: x / 4.c.a.sin3 4 B Extracting the root: 1. /, 4.c.a.sin3 J B V (0 CO c) It may be seen: that, by the method used in the preceding Problem, this formula may be adapted to the use of logarithms, employing the consideration: that, according to C, No. 8, we have: 1 sec3 = 1 + tan3 = cos3 If, then, we make 4.a.c.sin3 J B tan3 x = Second Transformation. Taking: cos B = 2 cos 3 4 B-I and substituting this value in No. 5, the formula becomes: J3 =: a + c + 2ac-4.o.c.cos3 4 B And by processes exactly similar to those used far the formula 6, it will finally become: Here we have, by the same means as in the foregoing transformation, representing the second term under the radical as the square of a sine or...

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