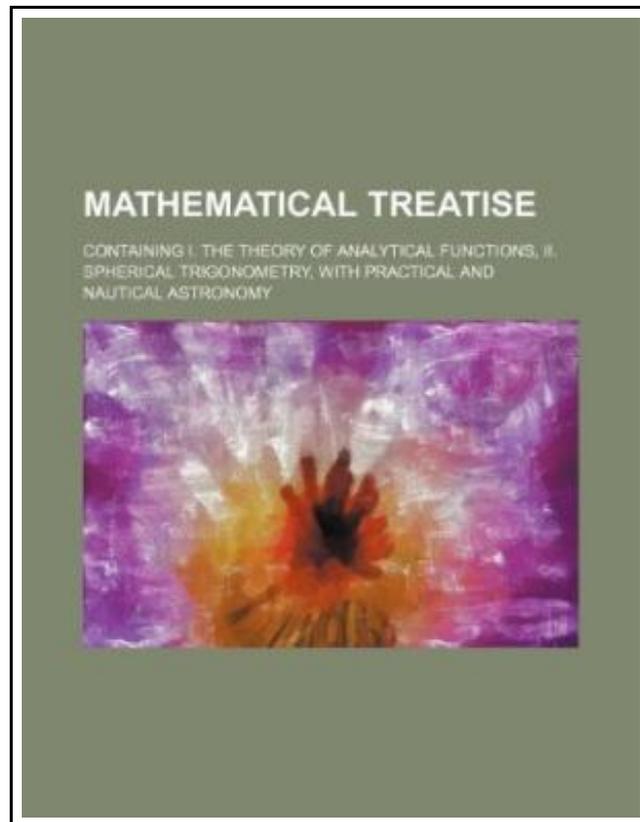


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1838 Excerpt: $\cos. 10a + \cos. 12a + \cos. 14a = y$. And their product by 27 will be found to be, $4S = xy$, therefore $xy = \frac{4S}{3}$. Thus, $x + y = \frac{4S}{3}$, and $xy = \frac{4S}{3}$. Hence both x and y may be determined geometrically. Again, let x be divided as follows, viz.: $\cos. 2a + \cos. 8a = v$. $\cos. 4a + \cos. 16a = z$. And their product will be found in the same manner to be $S = vz$, therefore $vz = \frac{S}{2}$. Also, dividing y as follows, viz.: $\cos. 6a - \cos. 10a = v$. $\cos. 12a - \cos. 14a = z$. The product of these will likewise be $S = tv$, therefore $v = \frac{S}{t}$. Hence, v , z , and vz may all be determined geometrically. Lastly, because $\cos. 4a - \cos. 16a = zzz$. and $\cos. 4a \cdot \cos. 16a = (\cos. 12a - \cos. 14a) = 2rv$. $\cos. 16a$, or (which is the same) $\cos. a$ may likewise be determined. Hence this simple geometrical construction: Let C (fig. 2.) be the centre of the circle, and ACD a diameter. Make AJB perpendicular to AC , and equal to AC . Draw DBF , on which take BE, BF , each equal to BA . Make EH, FG each perpendicular to DB , and equal to AC . Bisect DE in I , and make $IK=EB$. Join IH, KG , on DB , take $IM=IH$, and on KG , $KO = KF$. Divide DM in N , so that the rectangle $DNM = FG, GO$. To do this, erect the perpendiculars MT and DS equal to AC and GO ,...

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