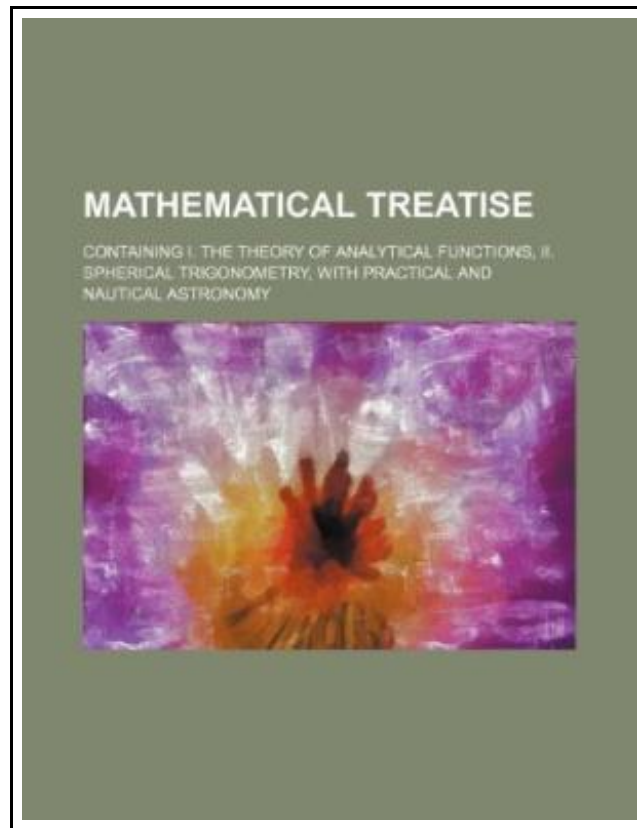


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## MATHEMATICAL TREATISE; CONTAINING I. THE THEORY OF ANALYTICAL FUNCTIONS, II. SPHERICAL TRIGONOMETRY, WITH PRACTICAL AND NAUTICAL ASTRONOMY



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  $xy = 1$ . Thus,  $x + y = -1$ , and  $xy = -1$ . 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  $vz = -1$ . 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  $vV = -1$ . Hence,  $v$ ,  $z$ , and  $vz$  may all be determined geometrically. Lastly, because  $\cos. 4a - \cos. 16a = 2\cos. 10a \cos. 12a$  and  $\cos. 4a \cos. 16a = (\cos. 12a - \cos. 14a) = 2\cos. 16a \cos. 10a$ , 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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