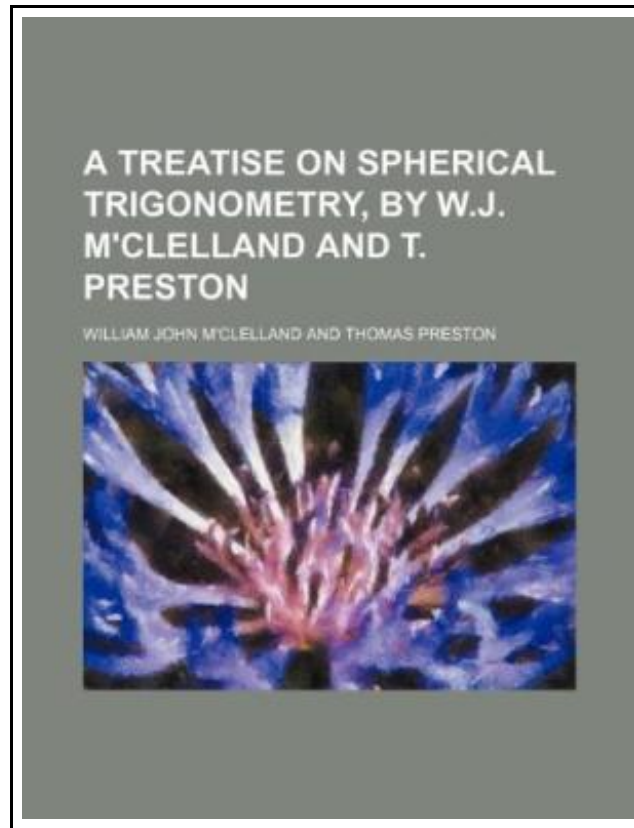


## A Treatise on Spherical Trigonometry, by W.J. M Clelland and T. Preston



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## A TREATISE ON SPHERICAL TRIGONOMETRY, BY W.J. M CLELLAND AND T. PRESTON



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. 1885 Excerpt: .2 2 4. If  $\alpha$ ,  $\beta$  and  $\gamma$  be the arcs joining the middle points of the sides, prove  $\cos \alpha \cos \beta \cos \gamma = 1 + \cos \alpha + \cos \beta + \cos \gamma = 4 \cos \frac{\alpha}{2} \cos \frac{\beta}{2} \cos \frac{\gamma}{2}$  and hence, if one of the arcs be a quadrant, the triangle whose sides are  $\alpha$ ,  $\beta$ , and  $\gamma$  is quadrantal. (See Ex. 3.) 5. If the side  $c$  of a spherical triangle be a quadrant, and  $h$  the arc drawn at right angles to it from the opposite vertex, show that  $\cot^2 h = \cot^2 A + \cot^2 B$ . (Science and Art Exam. Papert.) Let  $x$  be the foot of the perpendicular  $h$  on the base  $AB$ ; therefore  $\tan h = \tan A \cdot \sin AX = \tan B \cdot \cos AX$ ; therefore,  $c$ . 6. Given the vertical angle in position and magnitude, and the ratio of the cosines of the base angles, find the locus of the pole of the base. Let the perpendicular on the base divide the vertical angle into parts  $\alpha$  and  $\beta$ ; then by Art. 26, Ex. 6,  $\cos \alpha \sin \beta = \cos \beta \sin \alpha$  therefore the perpendicular is fixed in direction, and it obviously contains the pole of the base; therefore,  $c$ . 7. Prove that in fig. 18  $2 \cot XY = \cot AY + \cot BY \sin AY \sin AX \sin \angle MYX$  For 8. If  $a$ ,  $b$ ,  $c$ ,  $d$  be...



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