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

By William John M Clelland

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  $\cos \alpha \cos \beta \cos \gamma = 1 + \cos \alpha + \cos \beta + \cos \gamma = J - c = a b e = \sin S$ ;  $\cos \alpha \cos \beta \cos \gamma = 4 \cos \alpha \cos \beta \cos \gamma = 2 \cos \alpha \cos \beta \cos \gamma$  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  $\delta$  the arc drawn at right angles to it from the opposite vertex, show that  $\cot^2 \delta = \cot^2 A + \cot^2 B$ . (Science and Art Exam. Papert.) Let  $x$  be the foot of the perpendicular  $\delta$  on the base  $AB$ ; therefore  $\tan \delta = \tan A \cdot \sin AX = \tan B \cdot \cos AX$ ; therefore, c. 6. Given...



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