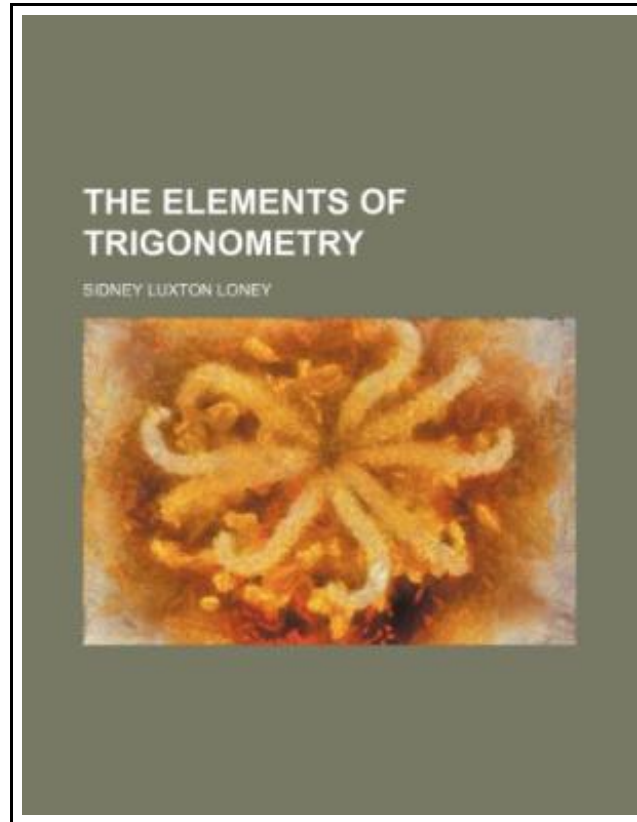


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1904 Excerpt: . this ground measure the angle of elevation a of the top of the tower. Measure off a distance $AB (= a)$ from A directly toward the foot of the tower, and at B measure the angle of elevation ϕ . To find the unknown height x of the tower, we have to connect it with the measured length a . This is best done as follows: (2), and, from the triangle PAB , we have $PB \sin a = a \sin BPA \sin (B-a)$ since $L_{rp} = L_{rp} - L_{qp} = B-a$. From (1) and (2), by multiplication, we have $x \sin a \sin B = a \sin (B-a) \sin B$ i.e. $x = a \frac{\sin B \sin (B-a)}{\sin a}$; $\sin (B-a)$ The height x is therefore given in a form suitable for logarithmic calculation. Numerical Example. If $a = 100$ feet, $\phi = 30^\circ$, and $\angle B = 60^\circ$, then $L_{OO} = 86.6$ feet, $\sin 128^\circ$. It is often not convenient to measure AB directly towards Q . Measure therefore AB in any other suitable direction on the horizontal ground, and at A measure the angle of elevation α of P , and also the angle $PAR (= \beta)$. At B measure the angle $PBA = (\gamma) - \alpha$. In the triangle PAB , we have then $\angle APR = 180^\circ - \angle PAB - \angle PBA = 180^\circ - (B + \gamma)$. $AP \sin \gamma = BP \sin (B + \gamma)$. Hence $\frac{AP}{BP} = \frac{\sin (B + \gamma)}{\sin \gamma}$. From the triangle PAQ , we have. $\sin \alpha \sin \gamma = AP \sin a = \dots$



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