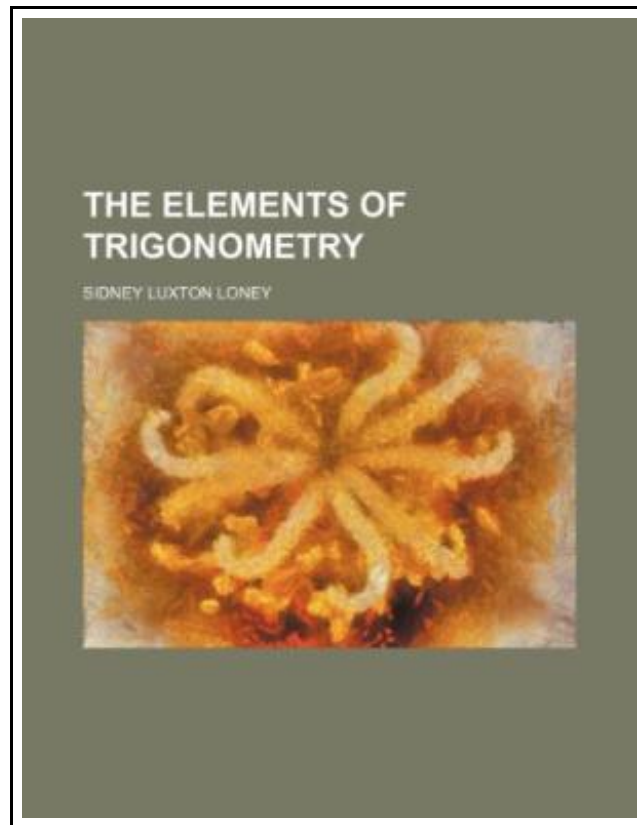


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned 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 A 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 $PB \sin PAB \sin a = a \sin BPA \sin (B-a)$ since $L_{rp} = L_{qp} - L_{ap} = B-a$. From (1) and (2), by multiplication, we have $x \sin a \sin B = a \sin (B-a) \sin a \sin B$ i.e. $x = a \frac{\sin (B-a)}{\sin a}$; $\sin (B-a)$ The height x is therefore given in a form suitable for logarithmic calculation. Numerical Example. If $a = 100$ feet, $a = 30$, and $\phi = 60$, then $100 \sin 60 = 86.6$ feet, $\sin 128$. 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 a of P , and also the angle $PAR (= \beta)$. At B measure the angle $PBA = (\gamma) - a$. In the triangle PAB , we have then $B \sin APR = 180 - L_{PAB} - L_{pba} = 180 - (B + \gamma)$. $AP \sin \gamma = PB \sin a$ Hence $\sin \gamma = \frac{PB \sin a}{AP}$ From the triangle PAQ , we have. $\sin a \sin \gamma = AP \sin a = \dots$



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