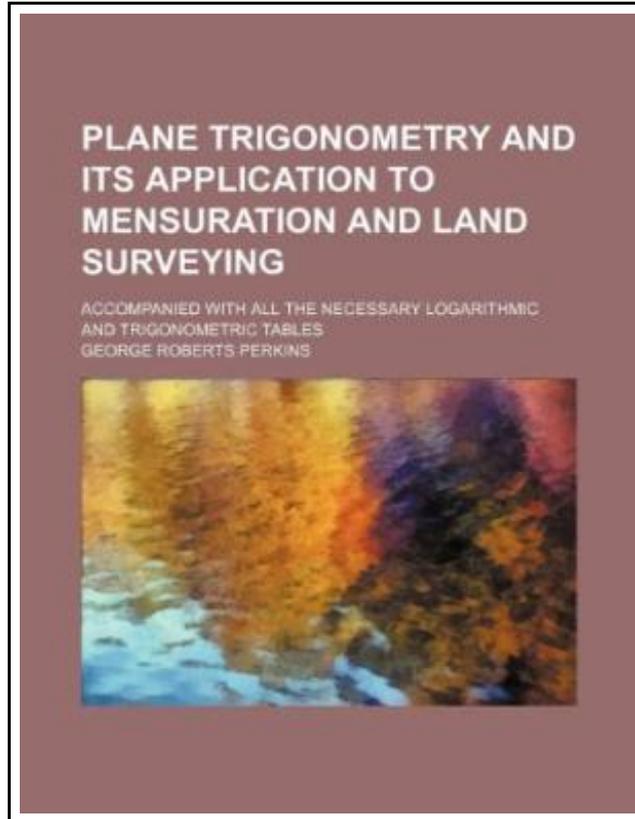


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1853 Excerpt: .of the sector CBGr and triangle ABC. Hence, to determine the area of a segment, we have this RULE. Find the area of a sector which has the same arc as the segment / also, the area of the triangle formed by the chord of the segment and the radii of the sector. Then take the sum of these areas when the segment exceeds the semicircle, and their difference when it is less. EXAMPLES. 1. In a circle whose radius is 10 feet, find the area of a segment whose arc corresponds with an angle of 10 at the centre. Area of sector = $\frac{1}{2} r^2 \theta$ = $\frac{1}{2} \times 10^2 \times \frac{10}{180} = 8.727$. triangle = $\frac{1}{2} r^2 \sin \theta$ = $\frac{1}{2} \times 10^2 \times \sin 10^\circ = 8.683$. The difference = area of segment = 0.044 of a sq. foot. 2. In a circle whose radius is 15 rods, it is required to find the area of a segment whose arc corresponds to a central angle of 200. Area of sector = 392.699 of triangle = 38.477 of segment 431.176 sq. rods. PROBLEM XII. To find the area of an ellipse. A line drawn through the centre of an ellipse is called its diameter. The longest diameter is called the transverse diameter; the shortest is called the conjugate diameter. Thus AB is the transverse diameter, and CD is the conjugate diameter. These diameters mutually bisect each other. The area of an ellipse may be found by this RULE. Multiply...

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