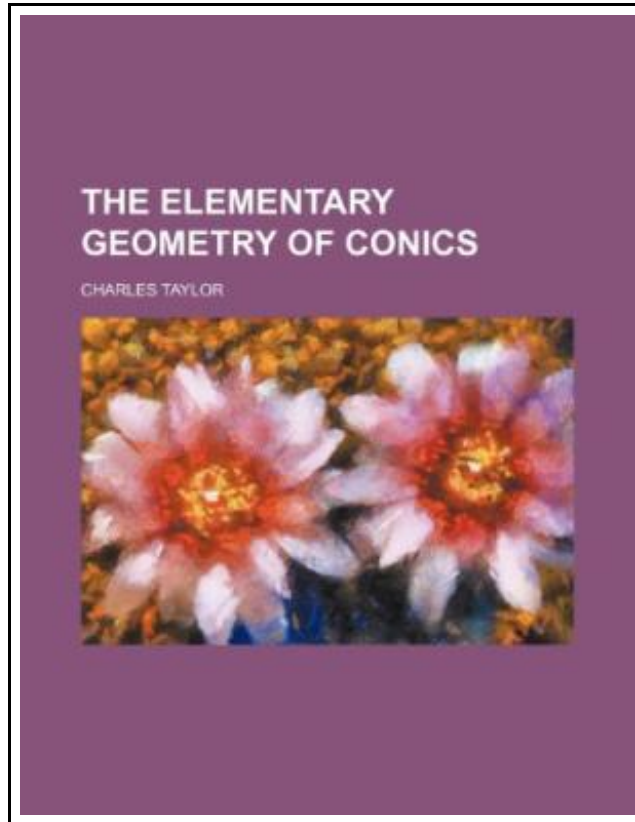


## The Elementary Geometry of Conics



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## THE ELEMENTARY GEOMETRY OF CONICS



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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. 1888 edition. Excerpt: .  $\tan \phi = \frac{y}{x} = i$ , therefore  $\phi = 0$  or  $\infty$ ; or  $i\phi = \tan \phi$ ; and therefore  $\phi + a$  or  $0$  is of the form  $a + i\infty$ . In other words the anomalous equation,  $\tan (\phi + a) = \tan \phi = i$ , signifies that the tangent of the complex angle  $a + i\phi$  approaches asymptotically to the limit  $i$  as  $\phi$  becomes infinite. A straight line through a Focoid is commonly said to be only at right angles to itself, because in the expression for the tangent of the angle between  $y = mx$ , and  $y = m'x$ , the denominator  $1 + mm'$  vanishes when  $m = m' = i$ . But the numerator  $m - m'$  also vanishes, and the angle is indeterminate. Art. 79. PROBLEMS. The General Conic. 1. The distance of any point outside a conic from the focus is to its perpendicular distance from the directrix in a ratio greater than the eccentricity, and conversely. 2. If an ellipse, a parabola, and a hyperbola have the same focus and directrix, the ellipse lies wholly within the parabola, and the parabola wholly within the hyperbola. 3. Conics having the same focus and directrix do not meet. 4. If  $SL$  be the semi-latus rectum, and  $SD$  be drawn parallel to  $PR$  (Art. 4) to meet the directrix, then  $SP: PR = SL: SD$ . 5. The segments of any focal chord subtend equal (or supplementary) angles at the foot of the directrix. 6....



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