



Elements of dynamic Volume 1 ; an introduction to the study of motion and rest in solid and fluid bodies

William Kingdon Clifford

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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. 1878 Excerpt: ...sinu); for the vertical component is reduced by the projection in the ratio a: b, which is 1: V(1-e2)-Hence $a^2 = a^2 (\cos u - \cos u' + a^2 (1-e^2) (\sin u - \sin M')^2 = 4a^2 \sin^2 (u-u) \sin^2 (u + u') + 4a^2(1-e^2) \sin^2 \frac{1}{2}(u-u') \cos^2 \frac{1}{2}(u+u) = 4a^2 \sin^2 (u-v!) 1-e^2 \cos^2 \frac{1}{2}(w + \ll) - 1$ Because $f \cdot m \cdot ct = cas$, it is easy to shew that $fa:am=\xi s: an$, and therefore that $tf:fp = t^2:sp$, so that sf bisects the angle asp . theorem for the hyperbola will be found in the paper referred to1. GENERAL THEOREMS. THE SQUARED VELOCITY. In general, if a point p be moving with acceleration f always tending from s , the resolved part of the acceleration along the tangent is $f \cos \theta$, say; therefore $v = f \cdot t \cdot \cos \theta / f$. Now the resolved part of the velocity v along sp is r , so that $r = v \cos \theta$. It follows therefore that $fr = vv = d(v^2)$. If the acceleration f depends only on the distance, so that f is a function of r , we may be able to find f or r , and thence t to which it is equal. Suppose, for example, that $f = fir$, then $(n-1) \int f dr = -/w^{n+1} + \text{some constant } c$, or $\int (n-1) f r^2 + /w^{n+1} = c$. Since $vp = h$, this equation gives us a relation between r and p which determines the form of the orbit. In the elliptic motion we have $J v^2 = fir + c$, the acceleration being towards the focus; and the constant c may be determined by means of the velocity at the extremity of the minor axis, where $r = a$ and $vb = h$. Here $\int A^2 = v^2 = fiaW + cV$, but we know that $A^2 = a^2 - 162$, therefore $c = -pa$ and the formula becomes $\int + fia1) = fir1$. The analogous formula for the hyperbola is $\int (j-fia1) = fir1$, which may be found by considering the velocity at an infinite distance, when the point may be regarded as moving along the asymptote. Since a parabola may be regar...

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