



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 $a^2 = a^2 (\cos u - \cos u' + a^2 (1-e^2) (\sin u - \sin M')^2 = 4a^2 \sin^2 (u-u) \sin^2 (u + u') + 4a^2(1-e^2) \sin^2 \frac{1}{2}(u-u') \cos^2 \frac{1}{2}(u+u) = 4a^2 \sin^2 (u-v!) 1-e^2 \cos^2 \frac{1}{2}(u + u')$. 1 Because $cf = ca$, it is easy to shew that $fa:am = fs: an$, 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 to. 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 $f \cos \theta$, where θ is the angle between the radius vector and the tangent; therefore $v = \int f \cos \theta dt$. Now the resolved part of the velocity v along sp is $v \cos \theta$, so that $r = \int v \cos \theta dt$. 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 $\int f dr$ or $\int f dt$, and thence v^2 to which it is equal. Suppose, for example, that $f = \frac{c}{r^2}$, then $\int f dr = -\frac{c}{r} + \text{some constant } c$, or $\frac{1}{2} v^2 = -\frac{c}{r} + c$. 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 $\frac{1}{2} v^2 = \frac{c}{r} + c$, 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 $\frac{1}{2} h^2 = \frac{c}{a} + c = \frac{c}{a} (1 + a)$, but we know that $\frac{1}{2} h^2 = a^2 \omega^2$, therefore $c = \frac{a^2 \omega^2}{1+a}$ and the formula becomes $\frac{1}{2} v^2 = \frac{a^2 \omega^2}{1+a} (\frac{1}{r} + 1) = \frac{a^2 \omega^2}{1+a} (\frac{1+r}{r})$. The analogous formula for the hyperbola is $\frac{1}{2} v^2 = \frac{c}{r} - c$, 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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