



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 $a^2 = a^2 (\cos u - \cos u' + a^2 (1-e^2) (\sin u - \sin M')^2 = 4a^2 \sin^2 (u-u) \sin^2 (u + u') + 4a^2(1-e^2) \sin^2 \frac{1}{2}(u-u') \cos^2 \frac{1}{2}(u+u) = 4a^2 \sin^2 (u-v!) 1-e^2 \cos^2 \frac{1}{2}(w + \llcorner)$. 1 Because $\frac{f}{m} = \frac{c}{s}$, it is easy to shew that $\frac{f}{a} = \frac{m}{s}$: an, and therefore that $\frac{f}{t} : \frac{f}{p} = \frac{t}{s} : \frac{p}{s}$, 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 ρ always tending from s , the resolved part of the acceleration along the tangent is $\rho \cos \psi$; therefore $v = \int \rho \cos \psi dt$. Now the resolved part of the velocity v along sp is r , so that $r = v \cos \psi$. It follows therefore that $\frac{dr}{dt} = v \frac{dv}{dr} = \frac{d}{dt}(v^2)$. If the acceleration ρ depends only on the distance, so that ρ is a function of r , we may be able to find $\frac{dr}{dt}$ or $\frac{dr}{ds}$, and thence ψ to which it is equal. Suppose, for example, that $\rho = \frac{f}{r^2}$, then $(\frac{dr}{ds})^2 = \frac{2f}{r} + \text{some constant } c$, or $\frac{1}{2} (\frac{dr}{ds})^2 + \frac{f}{r} = c$. Since $v^2 = h$, this equation gives us a relation between r and p which determines the form of the orbit. In the elliptic motion we have $\frac{1}{2} v^2 = \frac{f}{r} + c$, 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 $v = h$. Here $\frac{1}{2} h^2 = \frac{f}{a} + c$, but we know that $h^2 = a^3 \frac{f}{a^2}$, therefore $c = \frac{1}{2} h^2 - \frac{f}{a}$ and the formula becomes $\frac{1}{2} (\frac{dr}{ds})^2 + \frac{f}{r} = \frac{1}{2} h^2 - \frac{f}{a}$. The analogous formula for the hyperbola is $\frac{1}{2} (\frac{dr}{ds})^2 - \frac{f}{r} = \frac{1}{2} h^2 - \frac{f}{a}$, 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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