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

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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(l--e2)-Hence &2 = a2 (cos u--cos u'Y + a2 (1-e2) (sin u--sin M')2 = 4a2 sin2 (u--u) sin2 (u + u') + 4a2(1-e2) sin2£ (w-«') cos2% (u + u) = 4a2 sin2 (u--v!) 1-e2 cos21 (w + «)-. 1 Becaustf cm.ct = cas, it is easy to shew that fa:am=£s: an, and therefore that tf:fp = t2:sp, so that sf biseots 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 / always tending from s, the resolved part of the acceleration along the tangent is /cos spt--/cosyfr, say; therefore v--f.cosi/f. Now the resolved part of the velocity v along sp is r, so that r = v cos yfr. It follows therefore that fr = vv = d1(v2). If the acceleration / depends only on the distance, so that / is a function of r, we may be able to find ffrdt or ffdr, and thence ©2 to which it is equal. Suppose, for example, that f=firn, then (n-l)jfdr =--/w"+1 + some constant c, or £ (n--1) fl2 + /w"+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 v2 = fir1 +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 £ A2 = v262 = fiaW + cV, but we know that A2=a_162, therefore c =--pa1 and the formula becomes if + fia1) = fir1. The analogous formula for the hyperbola is % (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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