



An Elementary Treatise on the Dynamics of a System of Rigid Bodies; With Numerous Examples (Paperback)

By Edward John Routh

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. 1877 Excerpt: .contracting from loss of heat in course of time, the vis viva will not be constant, for the same reason as before. The increase of angular velocity produced by this contraction can be easily found by the conservation of areas. 337. Let gravity be the only force acting on the system. Let the axis of z be vertical, then we have. $Y = 0, Y=0, Z=-g$. Hence the equation of vis viva becomes $Imv^2 - w^2 = 2 \int g(z - z_0)$. Thus the vis viva of the system depends only on the altitude of the centre of gravity. If any horizontal plane be drawn, the vis viva of the system is the same whenever the centre of gravity passes through the plane. 338. The equation of Virtual Velocities in Statics is known to contain in one formula all the conditions of equilibrium. In the same way the general equation $2m...$



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