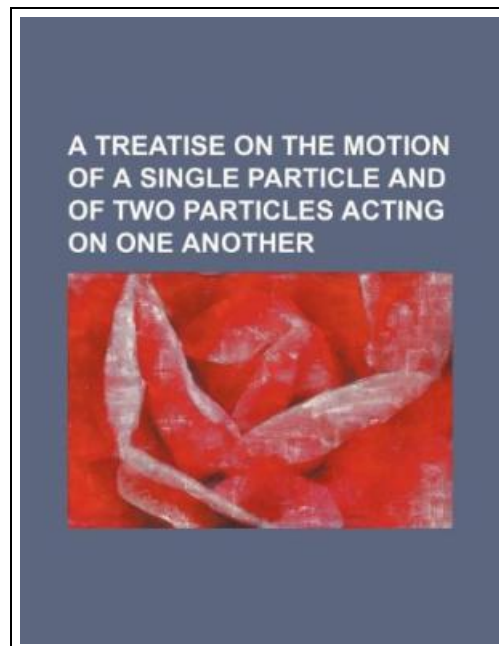


A Treatise on the Motion of a Single Particle and of Two Particles Acting on One Another



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A TREATISE ON THE MOTION OF A SINGLE PARTICLE AND OF TWO PARTICLES ACTING ON ONE ANOTHER



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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. 1850 Excerpt: . described by particles under the action of forces having equal intensities and similar directions at similarly situated points; and the velocities of the particles at similarly situated points, and the times of describing similar arcs will be in the sub-duplicate ratio of the lineal dimensions of the orbits. Let two particles describe similar orbits whose lineal dimensions are in the ratio of $k:1$. Let v, v' denote the velocities, and p, p' the radii of absolute curvature at corresponding points situated at the extremities of similar arcs s, s' measured from similarly situated fixed points in the orbits. The accelerations of motion along p and p' will be equal if $\frac{v^2}{p} = \frac{v'^2}{p'}$ or, since $p = hp'$, if $v^2 = kv'^2$. Let this relation hold; therefore we have, by differentiation, $2v \, dv = kv' \, dv'$. $\frac{dv}{v} = \frac{1}{2} \frac{dv'}{v'}$. $\frac{ds}{s} = \frac{1}{2} \frac{ds'}{s'}$ since $s = ks'$ and therefore $\frac{ds}{ds'} = \frac{1}{2}$. Hence the accelerations of motion along the tangent are also equal. Consequently the orbits may be described by forces which have equal intensities and similar directions at corresponding points. To compare the intervals of time (t, t' suppose) in which similar arcs s, s' are described, we have $\frac{ds}{ds'} = \frac{v}{v'} \frac{dt}{dt'}$, $\therefore \frac{dt}{dt'} = \frac{v}{kv}$. Hence, by integration, $t = \frac{1}{k} t'$, no constant being added since t, t' are supposed to begin with s, s' . It has been shewn that $v \dots$



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