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. 1826 Excerpt: ...a-ag-ft-b1 =. 71-c the surfaces of the ellipsoids do not cut each other: and the point A being without the given ellipsoid, a must be a, b, 7 c. The ellipsoid therefore whose semi-axes are a, b, c, is entirely within the other, supposing them concentric; and A therefore is within the, ellipsoid, whose semi-axes are a, ft, 7. V(la--arf + mb--fit2 + nc--yt)._ 1 y ?(/a-orp + mb-fis2 + nc + ytfV The square of the first denominator, expanded as above, = I (a-c2) + m (b-c) + c2--2 (aa/r + j&bms + yen 1--r2--s) + r (a2-7) + s2 (/32-72) + y But, by supposition, 2 2 2 2,2 2 OS 2 a--c = a--7, b--c--p--7; hence, this is precisely equal to the square of the denominator of the first factor above: or the first fraction here--the first fraction above. Similarly, the second fraction here = the second fraction above. Hence, the whole expression under the sign of integration is the same in both. And the limits of integration are the same; therefore the integrals will be the same. In the first, the integral is multiplied by pab, and in M the second, by pa/3: hence, the attraction of A parallel to c is to that of A1 parallel to y as a b to o /3. 44. In the same way, the attraction of A parallel to a, is to that of A parallel to a, as be to (3y: and the attraction of A parallel to b, is to that of A parallel to ($, as ac to ay. If the ellipsoid become a spheroid, by making a = b, then a = /3, and the forces parallel to c and y, are as a2: a: those parallel to a and o are as ac: ay: those parallel to b and /3 as ac to ay. 45. Prop. 21. To find the attraction of an oblate spheroid, whose ellipticity is small, on a point without it. Let c, the semi-axis of revolution of the spheroid, coincide with the axis of z: lety, g, h, be the co-ordinates of the...

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