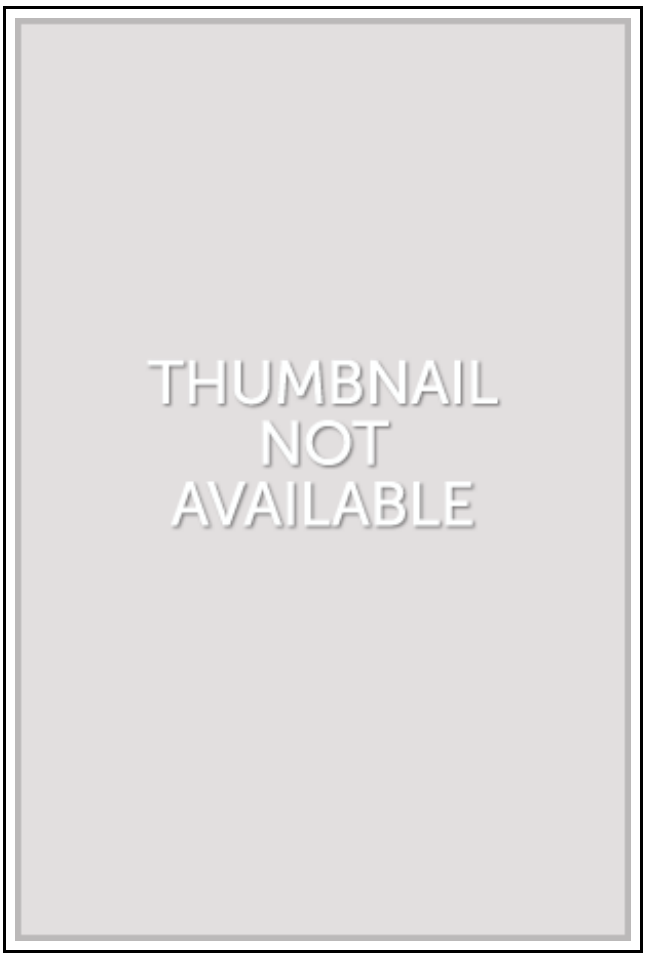
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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1877 Excerpt: . Art. 4 a little more closely, let us suppose it reduced to depend on three co-ordinates. We may then have the advantage of a geometrical analogy. Let the co-ordinates be f rj, f, and let the equations of motion be written d? d? Let a geometrical point P move in space so that its co-ordinates referred to any axes are f, rj, Then the position and motion of the point exactly give us the position and motion of the system. 12. Looking at the equations of motion just written down we see that they are similar to those which give the oscillations of a system about a position of equilibrium, but that there are in addition terms E-, F-, c. The general effect of these terms, as will appear from what follows in the subsequent chapter, is to increase the stability. If we transpose these terms to the other sides of the equations, we may regard them as impressed forces acting on the system, whose resolved parts in the directions of the axes f, r, are X=Gd?-F at at EX+FY+6Z=0) 3M + -! so that these forces are at once orthogonal to the path of the representative point P and also orthogonal to the straight line whose direction cosines are proportional to E, F, 0. These forces are therefore of the nature of centrifugal forces, as if they were produced by the rotation of the system about this straight line. 13. We may show that...

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