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Dynamics and Modern Geometry, Vol. 4: A New Chapter in the Theory of Screws (Classic Reprint)

By Robert S Ball

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Dynamics and Modern Geometry, Vol. 4: A New Chapter in the Theory of Screws The only restrictions which we shall impose are thus stated: - (1). The material system consists of a single rigid body. (2). The body has two degrees of freedom. (3). The investigation only applies while the body remains in or near to its original position. It will be observed that the forces are generally unrestricted, though in some cases it will be found that they should belong to what is often known as a conservative system. Nor is the nature of the constraints prescribed in any way, except that they shall so limit the body that any position it is capable of assuming can be specified by two co-ordinates. The third condition expresses the well-known limit to the operation of the Theory of Screws. The effect of this condition is to confine our inquiries to four departments, as follows: - 1st. The kinematics of small movements; 2nd. The theory of equilibrium; 3rd. The theory of impulsive forces; 4th. The theory of...



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