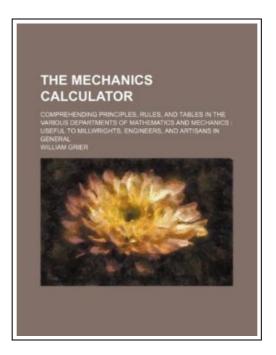
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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1853 edition. Excerpt: .force: when both forces are spoken of they are jointly called central forces. 2. When a body revolves round a fixed centre, the centripetal force may sometimes be the cohesion of the particles of which the body is composed, or sometimes it may be the power of some attracting body--such as gravity in the case of the planets. 3. In talking of the angular velocity of a revolving body, we mean not the space which is passed over in a given time, but the number of degrees, minutes, c., that the body describes in a certain time, whether the circle be large or small. Thus, a body moving in a circle of 10 feet diameter, may have an angular velocity of 15 in a second, so may also another body moving in a circle of three feet diameter; they will complete their respective circles in the same time, but the actual spaces they pass through are very different; that is, their angular velocities are the same, but their actual velocities are not. 4. The central forces are as the radii of the circles directly, and the squares of the times inversely, also the squares of the times are as the cubes of the distances. When a body revolves in a circle by means of central forces, its actual velocity is the same as it would acquire by falling through half the radius by the constant action of the centripetal force. From these facts the following...

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