



Solutions of the Problems and Riders Proposed in the Senate-House Examination for 1864

By Sir William Walton

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. 1864 Excerpt: .to the action of given forces. Find the least coefficient of friction consistent with equilibrium. A thin straight tube revolves with a given angular velocity about a vertical axis through its lower end, which is fixed, the inclination of the tube to that axis being invariable. Determine the condition of equilibrium of a particle placed at a given point within the tube, supposing it to be (1) smooth, (2) rough. Let a = the inclination of the tube to the vertical axis, r = the distance of the particle from the axis, ω = the angular velocity. 12 The effect of the rotation is to produce an acceleration $\omega^2 r$ perpendicular to the axis, and from it, the resolved parts of which parallel and perpendicular to the tube are $\omega^2 r \sin a$, $\omega^2 r \cos a$, respectively. Hence, if the tube be smooth, we have for equilibrium $g \cos a$...



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