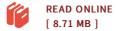# Solutions of the Problems and Riders Proposed in the Senate-House Examination

By University of Cambridge

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: . is placed upon a rough curve in space, and subjected 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, a = the distance of the particle from the axis, to--the angular velocity. The effect of the rotation is to produce an acceleration w a perpendicular to the axis, and from it, the resolved parts of which parallel and perpendicular to the tube are co a sina, to a cos a, respectively. Hence,...

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