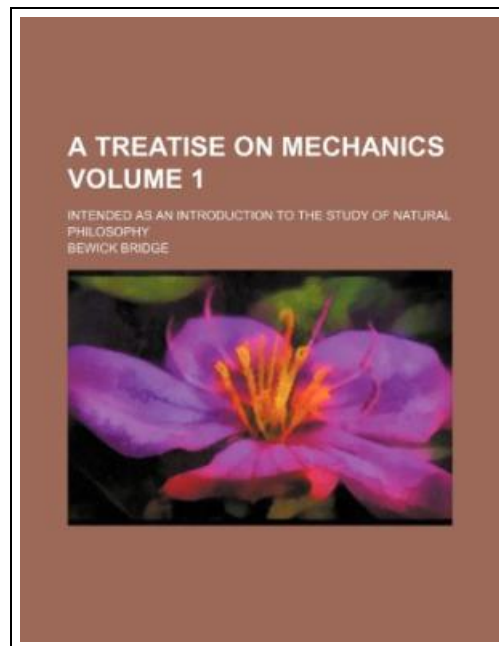


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1814 Excerpt: .upon the wheel; then, by Art. 5, of the circle described by. i-- . the extremity of the lever / = 2pa. Let P = the power acting at the extremity of the lever, / = the power acting at the surface of the cylinder, W= the weight which is kept in equi- --E- librio by P, then, by Art. 4, p: W:: d: circumference AFG, J: p:: CA CB:: circumf AFG: circumfBZ);, 2baP, Wd, . d--w, and a---; hence, it any mree of the four quantities W, P, a, d be given, the fourth may be found. 6. We () AFG represents a section of the cylinder upon which the screw is cut. (b) From this proportion it appears that the relation of P: W depends entirely upon the distance between the spirals and the circumference which the power describes, whatever he the thickness of the cylinder upon which the screw is cut; and since P (lVd Wd, , . n d. =---1 oc--, when W is given, Poc; i.e. the power ipa/ a a necessary to sustain a given weight varies directly as the distance between the spirals, and inversely as the length of the lever. 6. We have thus estimated the magnitude of the weight which might be sustained by a given power applied to the elevation of the screw; but this machine is more often used for the purpose of creating a pressure, than raising a weight; and it is evident, that...



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