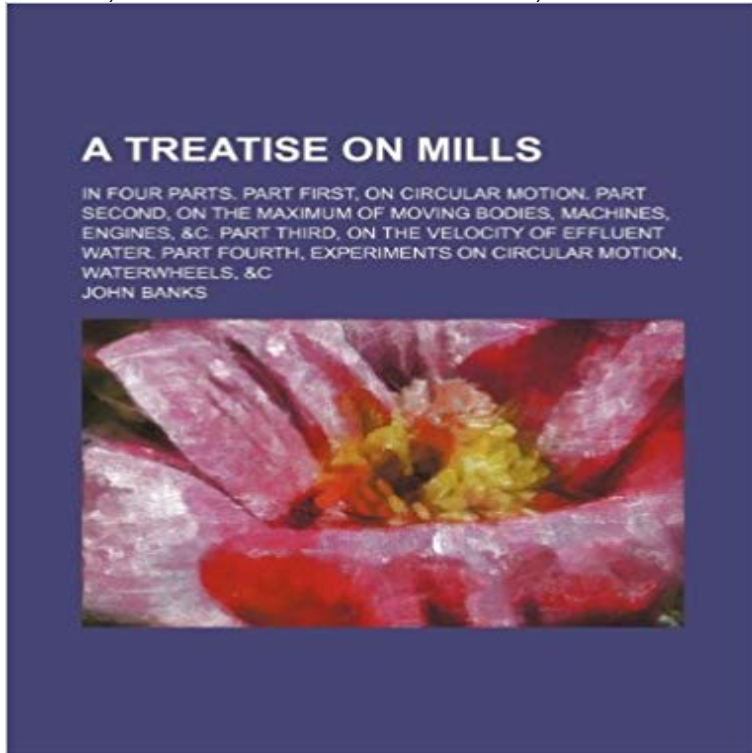


A treatise on mills; in four parts. Part first, On circular motion. Part second, On the maximum of moving bodies, machines, engines, &c. Part third, ... on circular motion, waterwheels, &c



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. 1815 Excerpt: ...the beam, and must be further increased by reducing the plug-frame to the end of the beam, in the following manner, viz.--zz the resistance at the end of the beam; and As x: P:: % hence + T = ttie whole a xa x xa weight suspended at the pit end of the beam. This diminished by s, and the remainder taken from x, leaves x----1-zz the weight of water to be lifted, not considering the friction. EXAMPLE I. Let a zz 12, m zz 1000, c zz 280, s zz 700, u = 200, t zz 7, p zz 2000: then will r zz 2960, and tfzz 111.55; also--= 2293; = 5440.-= 4586000 p = 4000000 %--739S400 4 Sum I5984400; the square root of this is 3998, from which subtract zz 2120) and we have 1578 zz #, the whole resistance, which must be diminished by---s + = 502: ancl we have 785 for the weight of the water to be lifted. And if Z zr 6 feet, the time of de seending will be /1 x a) 1.6 se P--x 16 conds, which doubled, gives the time in which the piston, 8cc. ascends and descends zz 3.2 seconds, which would give IS strokes in one minute, if the piston made no stop at the top or bottom. EXAMPLE II. Let a zz 12, m zz 5000, c zz 1000, s zz 2000, n zz 500, tzz 7i p= 14250: then 2c+2s+ m zz 11000 = r; also X 4c 4 + 1 zz 100.3636 =tf; and-zz 7666f. +pzz 257SO z: from which we have Sum 478078125; its square root is 21865, from which take? and we have 9990 zz x from which take--#.4.121 (--1095) and we Jiave the weight of water zz 8895lb. In the first Example, every square foot of the piston raises 1288lb.; and in the second, 14131b. In the first, the strokes per minute are 18.75; in the second. 17.96; which, multiplied by the weight raised at one stroke, gives 25377 and 24150, which difference arises from the superior weight

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of the beam, 8cc. in the second Example.
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