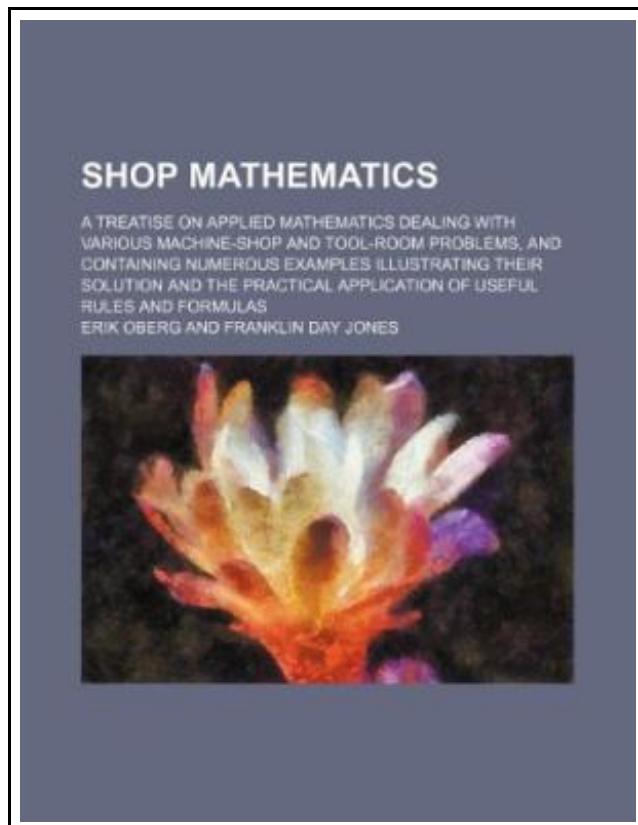


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1920 Excerpt: .would thus have to turn 3.1416 times to advance the tool 3.1416 inches. In other words, the lead-screw should turn 3.1416 times as fast as the worm which is being cut. As the fraction is nearly equivalent to 3.1416, this result would be accomplished with a 22-tooth gear on the stud and a 7-tooth pinion on the lead-screw, or gears in this ratio, say, 44 on the stud and 14 on the screw. Now suppose that instead of a lead-screw of one thread per inch, there was one with three threads per inch. The screw would then have to turn three times as fast as before, to accomplish which the gear on the stud should be three times as large, or else the gear on the screw three times as small as before. The gearing should be in the ratio, therefore, of 3 X, or ty. If the lead-screw had four threads per inch, the gearing should be in the ratio of-3, and if six threads, in the ratio of-f. Assume, finally, that it is desired to cut a worm of some pitch other than one, say, to mesh with a worm-wheel of four diametral pitch. The threads of the worm would then be four times as near together as before and the lead-screw should turn only one-fourth as fast. The gear on the lead-screw could thus be four times as large as in the first example, or the gear on the stud four times as...

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