The Elements of Mechanical Engineering Volume 2

By International Schools

Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1897 edition. Excerpt: .the centers of two gears = 20. What must be their diameters so that the ratio of their speeds will be as 6: 5? Ans. 18.181 inches and 21.818 inches. 1558. Law of Tooth Contact.--The pitch point of two gears is the point of contact C, in Fig. 41G, of the pitch lines. It is the point at which the line of centers O O intersects the pitch circles. The point of contact is the point where two teeth touch each other. In order that two gear-wheels may have the same relative velocities at every point as their corresponding pitch cylinders, the tooth curves-O must be of such a shape that at the point of contact they will both be at right angles to a line Fig. 416. N N, Fig. 416, passing through the pitch point and point of contact. This line is...

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