# Machine Design; PT. 1- . Volume 1



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# Reviews

This book is fantastic. It normally fails to price excessive. Your daily life span will likely be enhance once you total reading this publication. (Heath Prosacco)

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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. 1908 edition. Excerpt: . normal to the two gear axes. The pitch surfaces are generated by swinging the generatrix through one revolution, first about the axis of one gear for the surface of that gear, and then about the axis of the other for its surface. Any corresponding portions of these hyperholoids can be used as pitch surfaces upon which to develop teeth of such a form that they will have line contact. When such teeth work together, they have a sliding motion over each other in the direction of the line of contact as well as the combined sliding and rolling motion which occurs in ordinary spur gearing. This end sliding causes considerable frictional losses and wear when any considerable amount of energy is transmitted, and is a serious objection to their use. The teeth are difficult and expensive to make on account of their form. Their application is confined to a few special cases. The angular velocity ratio of the gears is inversely proportional to the number of teeth, but not to the diameters of the pitch surfaces. By the use of an intermediate shaft whose axis intersects those of the two given shafts, two pairs of the ordinary bevel gears with teeth whose elements are straight lines passing through the vertex of the pitch cone can be used for the transmission of a positive velocity ratio. SCREW GEARS. 61. When it is not desired to have line contact between the teeth of the gears...

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