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(Madyson Rutherford)

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Forgotten Books, 2017. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Hobs and Gear Hobbing: A Treatise on the Design of Hobs and an Investigation Into the Conditions Met With Gear Hobbing The hobbing process for cutting the teeth in spur and spiral gears is beginning to be very widely used. The principle of this method is shown diagrammatically in the accompanying illustration. In the lower part Of the illustration is shown an imaginary rack (in dotted lines); this rack is in mesh with the gear, the teeth of which are to be formed, and if the blank could be imagined as made Of a plastic material, the rack, if moved along as indicated by the arrow, while the gear rotated to correspond, would form theoretically correct teeth in the gear blank. The teeth of this rack coincide with the outlines of the worm shown in full lines, this latter having been set at such an angle as to make the teeth on its front side parallel with the axis Of the gear. In other words, it has been set at the angle of its helix, measured at the pitch line. This worm, when properly ?uted, forms the hob for cutting the gear teeth. It will be seen that the teeth of the hob, when set in this position, correspond with the teeth of the rack. If, now, the hob and blank be rotated at the ratio required by the number of threads in the hob and the number of teeth in the gear, this movement will cause the teeth of the hob to travel lengthwise in exactly the same way as the teeth of the imaginary rack would travel, if in mesh with the gear, the teeth of which are to...



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