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Calculations of Elements of Machine Design (Classic Reprint) (Paperback)

By Forrest E Cardullo

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Calculations of Elements of Machine Design It is the custom among most firms engaged in the designing of machinery to settle upon certain stresses as proper for given materials in given classes of work. These stresses are chosen as the result of many years of experience on their own part, or of observation of the successful experience of others, and so long as the quality of the material remains unchanged, and the service does not vary in character, the method is eminently satisfactory. Progress, however, brings up new service, for which precedent is lacking, and materials of different qualities, either better or cheaper, for which the safe working stresses have not been determined, and the designer is compelled to determine the stress proper for the work in hand by using a so-called factor of safety. The name factor of safety is misleading for several reasons. In the first place, it is not a factor at all, from a mathematical point of view, but is in its use a divisor, and in its derivation a product....



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