



Engineering Applications of Higher Mathematics, Vol. 1: Problems on Machine Design (Classic Reprint)

By Vladimir Karapetoff

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Engineering Applications of Higher Mathematics, Vol. 1: Problems on Machine Design This is not a book on calculus or analytic geometry (the market is flooded with them); nor is this a book on engineering or any branch of it. The book is intended to enable an engineer to make a better and more extended use of higher mathematics in his work. The purpose of the book may be best amplified by a parable. In a manual-training school (on the moon) machinist apprentices were taught their trade in the following manner: During the first year they had a highly theoretical course on the subject of various tools used on lathes, planers, boring mills, milling machines, etc. The shapes of the tools were derived and explained in detail on complicated drawings; most general theorems were proved concerning these tools; it was shown how to design these tools, not only for a few simple practical cases, but principally for many hypothetical cases which were supposed to be of some importance on Mars. This latter part of the course...



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