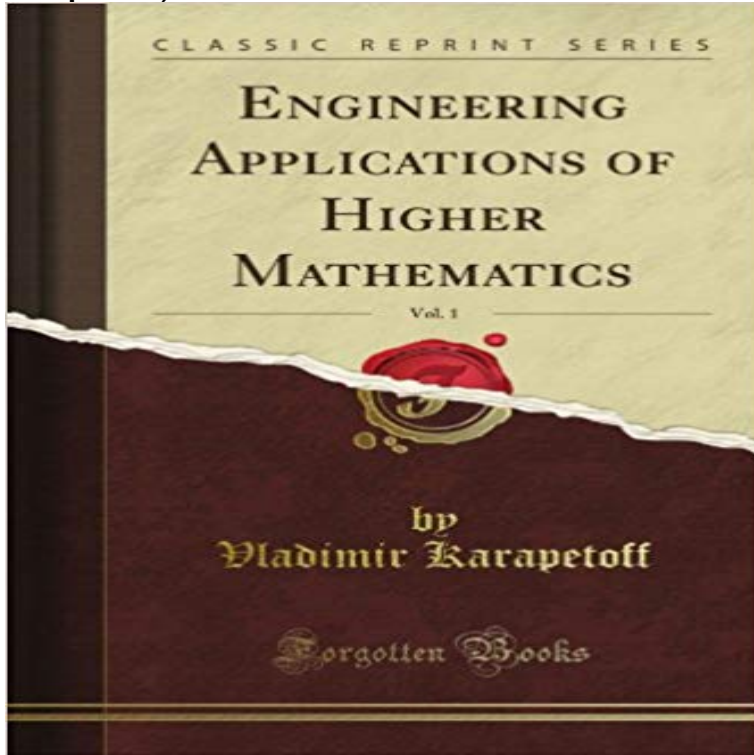


# Engineering Applications of Higher Mathematics, Vol. 1 (Classic Reprint)



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 apprehended 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 was justified on the plea of mental gymnastics. No actual machine-tools were provided in this department and no practice was afforded the student in the use of the tools. During the next two years the students were required to finish, fit, and assemble the parts of various engines and other pieces of mechanical apparatus. Had they been previously trained in the use of machine-tools, their shop-work would have been much simplified. (Typographical errors above are due to OCR software and do not occur in the book.) About the Publisher Forgotten Books is a publisher of historical writings, such as: Philosophy, Classics, Science, Religion, History, Folklore and Mythology. Forgotten Books Classic Reprint Series utilizes the latest technology to regenerate facsimiles of historically important writings. Careful attention has been made to accurately preserve the original format of each page whilst digitally enhancing the aged text.

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