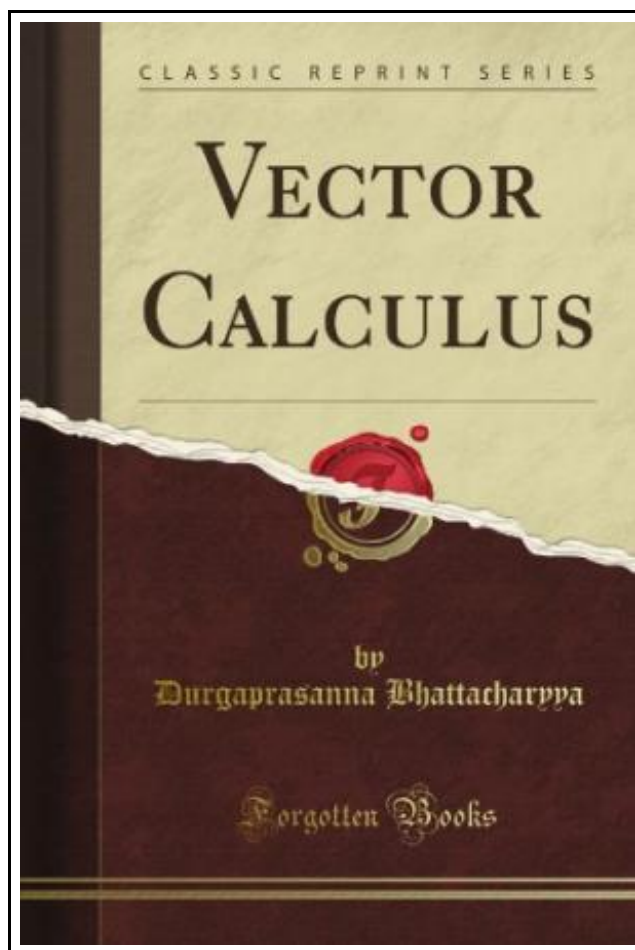


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Vector Calculus In course of an attempt to apply direct vector methods to certain problems of Electricity and Hydrodynamics, it was felt that, at least as a matter of consistency, the foundations of Vector Analysis ought to be placed on a basis independent of any reference to cartesian coordinates and the main theorems of that Analysis established directly from first principles. The result of my work in this connection is embodied in the present paper and an attempt is made here to develop the Differential and Integral Calculus of Vectors from a point of view which is believed to be new. In order to realise the special features of my presentation of the subject, it will be convenient to recall briefly the usual method of treatment. In any vector problem we are given certain relations among a number of vectors and we have to deduce some other relations which these same vectors satisfy. Now what we do in the usual method is to resolve each vector into three arbitrary components and thus rob it first entirely of its vectorial character. The various characteristic vector operators like the gradient and curl are also subjected to the same process of dissection. We then work the whole problem out with our familiar scalar calculus, and when the necessary analysis has been completed, we collect our components and read the result in vector language. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present...

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