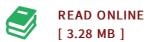# The Integration of Functions of a Single Variable, Vol. 2 (Classic Reprint) (Paperback)

By G H Hardy

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Integration of Functions of a Single Variable, Vol. 2 The problem considered in the following pages is what is sometimes called the problem of indefinite integration or of finding a function whose differential coefficient is a given function . These descriptions are vague and in some ways misleading; and it is necessary to define our problem more precisely before we proceed further. Let us suppose for the moment that f(x) is a real continuous function of the real variable x. A little reflection shows that this problem may be analysed into a number of parts. We wish, first, to know whether such a function as y necessarily exists, whether the equation (1) has always a solution; whether the solution, if it exists, is unique; and what relations hold between different solutions, if there are more than one. The answers to these questions are contained in that part of the theory of functions of a real variable which deals with definite integrals . About the Publisher Forgotten Books publishes hundreds of thousands of rare and...

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