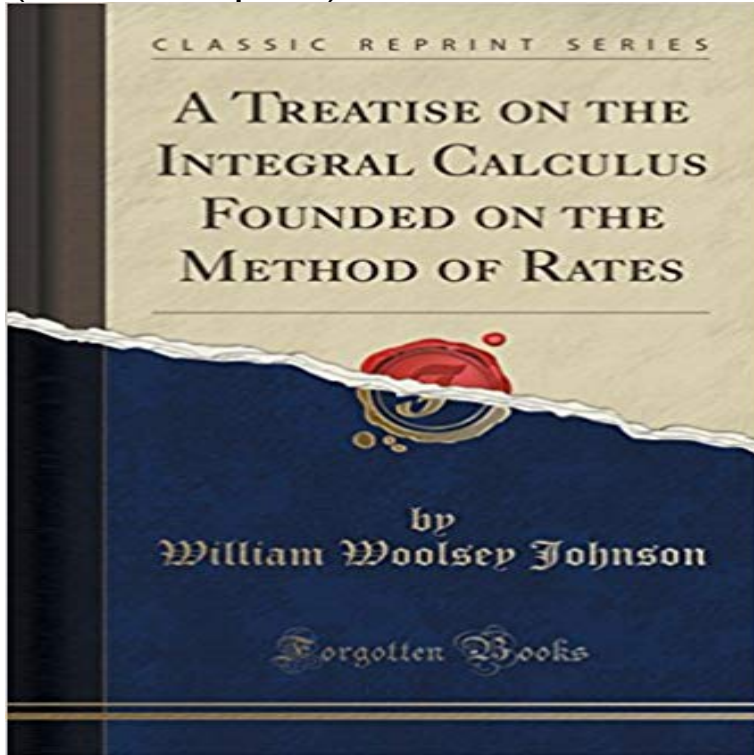


# A Treatise on the Integral Calculus Founded on the Method of Rates (Classic Reprint)



Excerpt from A Treatise on the Integral Calculus Founded on the Method of Rates  
The present volume is an enlargement and an extension of my Elementary Treatise on the Integral Calculus, of which a revised edition was published in 1898. The enlargement consists chiefly in a fuller treatment of formulae of reduction, and of double and triple integrals in connection with their geometrical representation by cylindrical volumes and solids of variable density respectively. The extension, which constitutes nearly half of the volume, consists of Chapter IV on Mean Values and Probabilities, Chapter V on Definite Integrals including the Eulerian Integrals, Fourier's Series, etc., and Chapter VI on Functions of the Complex Variable. The book forms a companion volume to my Treatise on the Differential Calculus, founded on the Method of Rates (John Wiley Sons, 1904) to which belong the references made in the text. The Integral Calculus may be said to consist of two distinct parts: the first concerns the reduction of integral expressions to previously known functional forms; the second concerns the mode of expressing a required magnitude in the integral form for subsequent reduction when possible. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) 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 in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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