



Differential Equations Mathematical Monographs Volume 9

By W. Woolsey Johnson

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0.2in. **AUTHORS PREFACE.** IT is customary to divide the Infinitesimal Calculus, or Calculus of Continuous Functions, into three parts, under the heads Differential Calculus, Integral Calculus, and Differential Equations. The first corresponds, in the language of Newton, to the direct method of tangents, the other two to the inverse method of tangents; while the questions which come under this last head he further divided into those involving the two fluxions and one fluent, and those involving the fluxions and both fluents. On account of the inverse character which thus attaches to the present subject, the differential equation must necessarily at first be viewed in connection with a primitive, from which it might have been obtained by the direct process, and the solution consists in the discovery, by tentative and more or less artificial methods, of such a primitive, when it exists; that is to say, when it is expressible in the elementary functions which constitute the original field with which the Differential Calculus has to do. It is the nature of an inverse process to enlarge the field of...

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