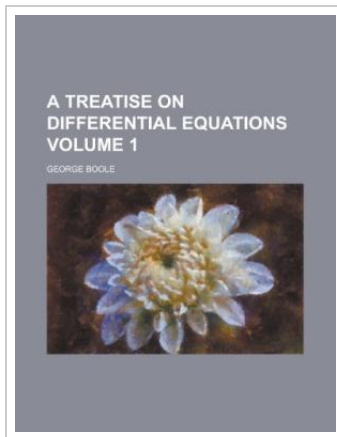




A Treatise on Differential Equations Volume 1

By George Boole

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1865 edition. Excerpt: .must eliminate c between the first integral in question and the equation $j_i = (r)$ where y_{n-i} is the value of, f expressed in terms $d y$ of x , y , $y-jlj$, c . by means of the given first integral. If the proposed first integral is rational and integral in form, then representing it by $f = 0$, it suffices to eliminate c between the equations, $= f = 0$ It is unnecessary to dwell on the particular cases of exception after what has been said on this subject in Chap. vm. Ex. 1. The differential equation $x^2 y-yx + j y-Oi-xyy-y=0$, has for a first integral required the corresponding singular integral. Differentiating the first integral with respect to b , we find whence $b=j4-2t$, and this value substituted in the given integral, leads to, $. yt y, , (.y.-T 0 y 2 xi + Uxt(l +...$



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