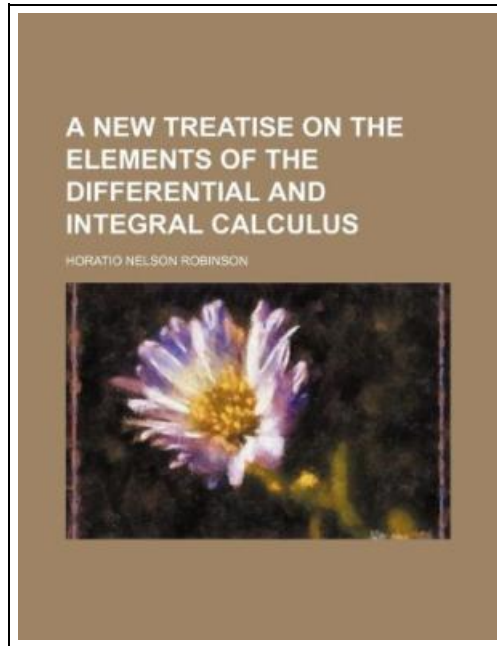


## A New Treatise on the Elements of the Differential and Integral Calculus



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*The book is simple in read through better to fully grasp. It is rally exciting through looking at period of time. I discovered this publication from my i and dad encouraged this book to find out.*

***(Dr. Dillon Monahan)***

## A NEW TREATISE ON THE ELEMENTS OF THE DIFFERENTIAL AND INTEGRAL CALCULUS



Rarebooksclub.com, United States, 2012. 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 download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1867 Excerpt: .  $g(c)$ ,  $j_i(c)$  of  $c$ , we should find that the given equations  $=0$ ,  $F_i(x, y, z, c, q_p(c), (c) =0$ , with their partial derived equations of the first order, making in all twelve equations, would involve twelve quantities to be eliminated; viz.,  $dc$   $dc$  (  $2c$   $fi$   $c$   $d-c$   $dx$   $d$  if  $3P$  hence the elimination cannot be effected, except in special cases. Passing to the partial derived equations of the third order, wo should then have in all twenty equations, with, eighteen quantities to bo eliminated; viz., the twelve above given, and  $d^3c$   $dzc$   $d^3c$   $d^3c$ , . .  $dp$   $dxd$  additional: and we may therefore have for our results two partial differential equations of the third order between  $x, y, z$ ; the latter being the dependent variable. In certain cases, it is unnecessary to make as many differentiations as have been indicated to enable us to effect the desired eliminations. Suppose, for example, that the given equations contain but three arbitrary functions,  $p(c)$ ,  $q_i(c)$ ,  $q_p, (c)$ : in this case,  $m = 3$ ,  $2m-1 = 5$ ; and, to effect the eliminations, it would be generally necessary to form the derived equations of the fifth order, and we should have for our results three partial differential equations of the fifth order between  $o$ ;,  $y, z$ . But if the arbitrary functions are so related that  $q_i(c) = q_p (c)$ ,  $.gi_2(c)--p (c)$ , the proposed equations be come  $F_x, y, z, c, (f(c), q_r (c), g (c) = 0$ , Fl...



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