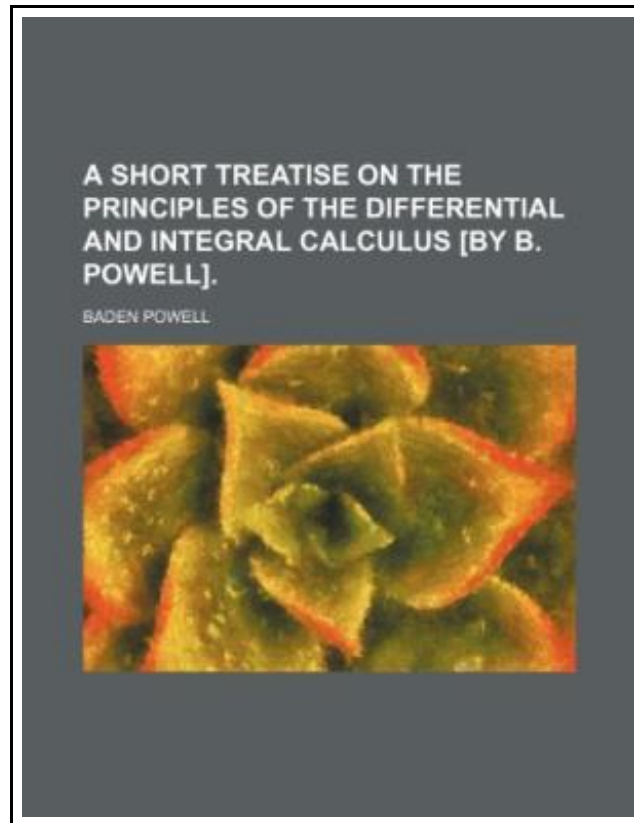


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Not Avail, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1829 Excerpt:  $n^2$  is  $n^3$ , we have  $(i.yy \sqrt{dx^2}) n^?$  Differentiating now the equation  $=$ we shall find  $d^2y$   $ndm--mdn dx--n^2$  and dividing the first side of this equation by  $dx$ , and the second by  $n$ , which is equivalent to  $dx$ , we shall have  $d y ndm--mdn dx^2 n^3$  By means of these values given by the two last equations, the expression for the radius of curvature becomes,  $(m + n \sqrt{y-- --. ndm--mdn}$  and we have now only to transform this equation into a function of  $\theta$  and  $r$ ; for which purpose we must determine first the value of  $n^2 + m$ , by adding the squares of the value of  $m$  and  $n$ , and reducing by means of the equation  $\sin. \theta + \cos. \theta$ ; when we shall find  $n^2 + m^2 = dr^2 + r^2 dQ^2$ . To obtain the denominator of the equation for  $y$ , we must differentiate successively the equations for  $m$  and  $n$ , considering  $dQ$  as constant; and multiplying the results by  $n$  and  $m$  respectively, we shall find  $ndm--nd^2r \sin. \theta + 2ndr \cos. \theta d\theta--nr \sin. \theta d\theta$ ,  $mdn = md^2r \cos. \theta--2mdr \sin. \theta d\theta--mr \cos. \theta d\theta^2$ , whence, subtracting the second equation from the first, we have  $ndm--mdn = d^2r n \sin. \theta--m \cos. \theta + 2drd\theta (n \cos. \theta + m \sin. \theta)--rd\theta^2 (n \sin. \theta--m \cos. \theta)$  Now, multiplying the first of the equations for  $m$  and  $n$ , by  $\cos. \theta$ , and the second by  $\sin. \theta$ , subtracting...

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