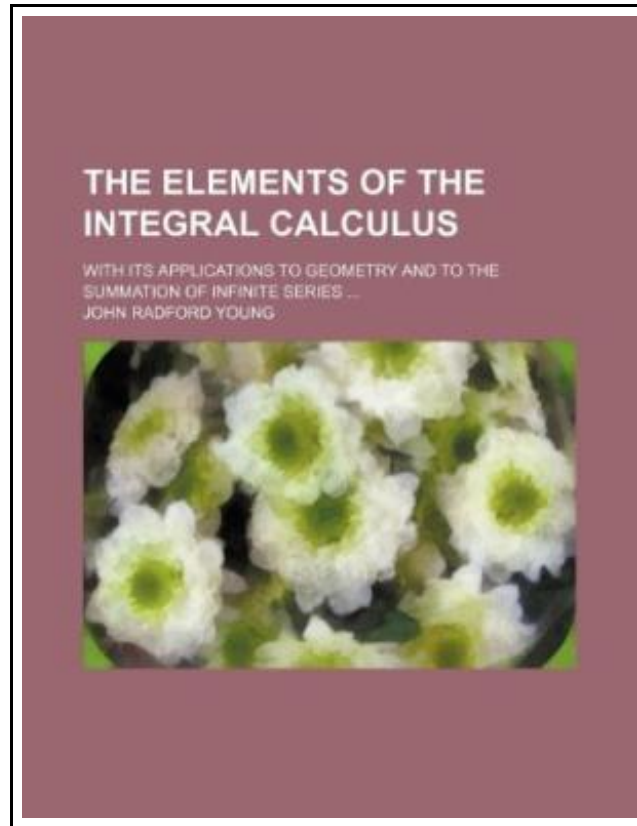


# The Elements of the Integral Calculus; With Its Applications to Geometry and to the Summation of Infinite Series .



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## ***Reviews***

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(Mr. Deangelo Considine)*

## THE ELEMENTS OF THE INTEGRAL CALCULUS; WITH ITS APPLICATIONS TO GEOMETRY AND TO THE SUMMATION OF INFINITE SERIES .



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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. 1831 Excerpt: .have for the area of tha ttouching at M the expression  $\int dz \int dy$  the quantity under the radical heing a function of  $x$  and  $y$  we may represent it hy  $f(x, y)$ , and to find the expression for the other parallelogram or that touching at C, we shall merely have to change in this  $x$  into  $x + h$  and  $y$  into  $y - j - k$ , multiplying the result as before by  $hk$ . Now  $\int \cdot + \cdot = \int \cdot + gA + rf + c$ . consequently, the general expression for the ratio of the two parallelograms in space is which when  $h$  and  $k$  become 0 reduces to unity; hence in the limit the ratio of the intermediate surface MC to either of these parallelograms is unity, so that then  $(PS \int dx dy \int dx dy \text{ becomes } = \int dx dy \int dx dy \text{ therefore As an illustrative example let us take as before a spherical surface. From its equation } x^2 + y^2 + z^2 = r^2, \text{ we get by differentiating } dz = -x dx - y dy \text{ and these values substituted in the foregoing expression under the radical reduces it to } -\sqrt{r^2 - x^2 - y^2} \text{ this taken as before between the limits P and M, (see fig. p. 154, ) or, TTV from } i = u \text{ to } x = \sqrt{r^2 - y^2} \text{ is } -, \text{ which is the quadrantal vertical arc subtended by PM; and multiplying by } dy, \text{ and integrating again, have finally } S = Ty, \text{ which from } y = 0 \text{ to } y = r \dots$



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