



# Elements of the Differential Integral Calculus

By Albert Ensign Church

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. 1855 Excerpt: .required for x and y in the value just deduced, substitute the co-ordinates of the particular point. As only the absolute length of the radius of curvature is required in determining the curvature of curves, we may use either the plus or minus sign of the formula. It is best, in general, to use that which, taken with the sign resulting from the expression, will make R essentially positive. Let it now be required to find the general expression for the radius of curvature of Conic Sections. Their equation is,  $i t. J (m + 2nx)dx.tr = mx + nr$ ; whence  $ay = . .-, 2y lnydx1--(m + 2nx)dxdy iny--(m + 2fw)te dy 2p-4?$  These values substituted in the formula, give  $R 4(mz + nx) + (m + 2bx), 2n?$  and this, after dividing both terms of the fraction by 8, may be put under the...



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