



## An Expository Sketch of a New Theory of the Calculus

By William Batchelder Greene

General Books LLC. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. 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. 1859. Excerpt: . . . gives the tangent of the finite angle as infinitely small, we shall have the tangent of the infinitely small angle (or, in this case, a proportionate function of that tangent) as infinitely smaller than the infinitely small tangent of the finite angle. Therefore, the ordinate corresponding to the abscissa  $x_{dx}$ , considered as ordinate to the curve, is equal to the ordinate corresponding to the abscissa  $x$ , plus the infinitely small trigonometrical tangent of the finite angle made by the tangent with the axis of  $x$ , that trigonometrical tangent measured to the infinitely small radius  $dx$ , plus or minus (according as the curve is convex or concave to the axis of  $a$ ;) a value which is naturally (in these circumstances of infinitely small variations resulting from the infinitely small variations of the abscissa) infinitely smaller than the infinitely small tangent represented by  $dU$ . Therefore, to reject...



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