



## A Primer of Calculus (Paperback)

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By Arthur Stafford Hathaway

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. 1901 Excerpt: .the straight line PS, since PS does so; i.e.,  $ds = \lim NAs = \lim \text{arc } PS = PS$ . Observe that the two triangular figures PQP, PR S, each with an arc side, are similar figures, with P as center of symmetry, and N as ratio of similitude. Since PR S approaches coincidence with the triangle PRS, it appears that the difference figure PQP approaches similarity with the differential triangle PRS, as its sides indefinitely diminish. The difference figure reduces to the point P; we have left, however, in the triangle PRS what might be called its ultimate form. (a) The limiting ratio of any arc to its chord as the arc is taken smaller and smaller, is unity. For,  $PP \text{ arc } PP = PS \text{ arc } PS$ , whose limit is PS: PS = 1 (b) The slope of the curve  $y = f(x)$  at the point...

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