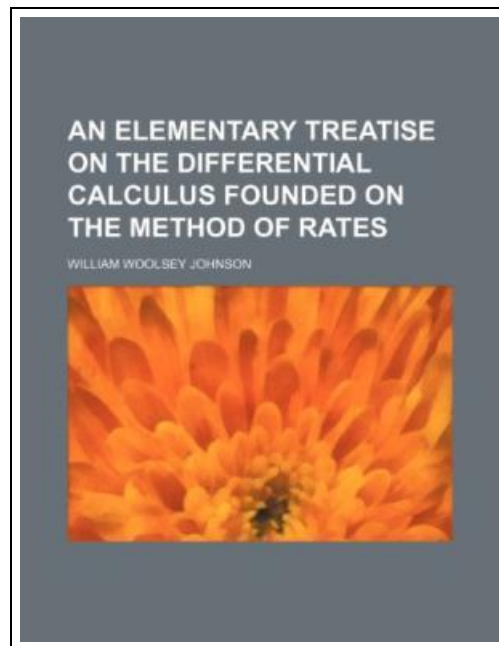


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1908 Excerpt: $\therefore 42At$, etc. After the first, all the equations are of the form It is to be noticed that this value of y is not the only solution of the differential equation (4). In the first place, the fact that, had we included A_0 in the assumed series there would have been no way of determining it, shows that $A_0 + (\sin^{-1}c)^2$ is a more general solution. Again, had the odd powers of x been included in the assumed series, there would have been no way of determining J_4 ; but the same relation (5) would have existed between the coefficients of successive odd powers. Thus we should have had the additional terms $A_j x^{j-1} + \dots + (-1)^{j-1} A_j x^{j-1}$ 1V 2.3 2.3.4.5 2.3.4.5-6.7 / This last series is in fact that for $\sin^{-1} x$, and its occurrence is due to the fact that $y = \sin^{-1} x$ makes the first member of equation (4) vanish. (See Ex. VIII, 17.) Thus the most general solution of the differential equation (4) is $y = A_0 + A_1 \sin^{-1} x + (\sin^{-1} x)^2$. 133. Differentiation of the result obtained above gives the development $v, 2 J, 2-4.5, 2.4.6 7, \# +x^3 H \dots: r H \dots \#7 + vi-2) 3 3-5 3-5-7$ This is equivalent to a development of the arcual measure of an angle in the form of a series involving powers of its sine; for, putting $\sin^{-1} x = \theta$, we have $0 = \cos \theta \sin \theta \text{ Fi} \dots$



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