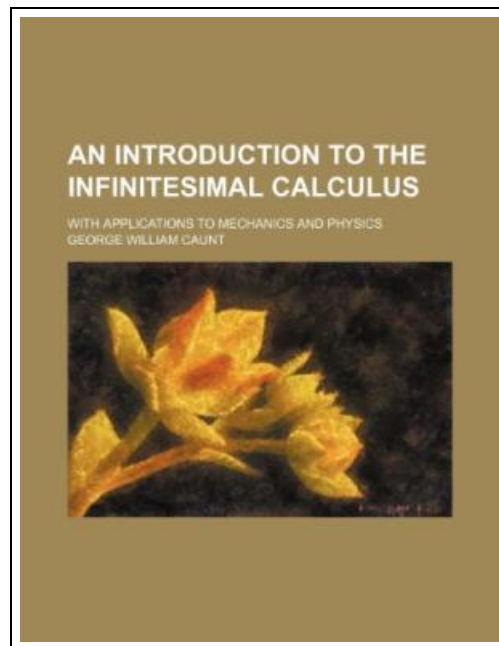


## An Introduction to the Infinitesimal Calculus; With Applications to Mechanics and Physics



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## AN INTRODUCTION TO THE INFINITESIMAL CALCULUS; WITH APPLICATIONS TO MECHANICS AND PHYSICS



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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. 1914 Excerpt: .  $\cos x$   $1-x$ . 15. Also that  $\log(1+x)$   $x-x$ . 16. Also that  $\log(1+\cos a)$ ;  $\log 2-x$ . 17. Prove, by the method of Arts. 117 and 119, that  $f(a+h) = f(a) + f'(a)h + \frac{f''(a)}{2!}h^2 + \dots$ , where  $0 < h < 1$ , provided  $f'(a)$  and its first 3 differential coefficients are continuous in the interval  $a$  to  $a+h$ . 18. Deduce from the preceding result that  $f(x) = f(0) + xf'(0) + \frac{f''(0)}{2!}x^2 + \dots$ . 19. Deduce from the result of Question 18 that  $\sin a$ ;  $x-x$ . 20. Also that  $\tan x = x + \frac{1}{3}x^3 + \dots$ . 21. Deduce from the mean-value theorem that, if two functions have the same derivative, their difference is constant. 22. Discuss the application of the extended mean-value theorem to the function  $\log(a-x)$ , in the neighbourhood of  $x=0$ . 23. Also to the function  $1-(1-x)^n$ , in the neighbourhood of  $x=1$ . 24. Also to the function  $\log \cos a$ , in the neighbourhood of  $x=0$ . 25. Find the true values of (i)  $\sin^{-1} \frac{1}{\sqrt{2}}$ , when  $a = \frac{\pi}{4}$ ; (ii)  $\cos^{-1} \frac{1}{\sqrt{2}}$ , when  $x = \frac{\pi}{4}$ . (iii)  $\sin ax \operatorname{cosec} bx$ , when  $x = 0$ . 26. Find the true values, when  $x = 0$ , of  $\sin^{-1} a$ ;  $\cos^{-1} a$ ;  $e^{x-1}$ . 27. Find the true values, when  $x = \infty$ , of  $\log a$ ;  $3a$ ;  $2-2a$ ;  $+ l. x$ . CHAPTER XIV METHODS OF INTEGRATION 121. Introductory. The integration of very simple functions and some easy applications thereof have already been considered in Chapter...



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