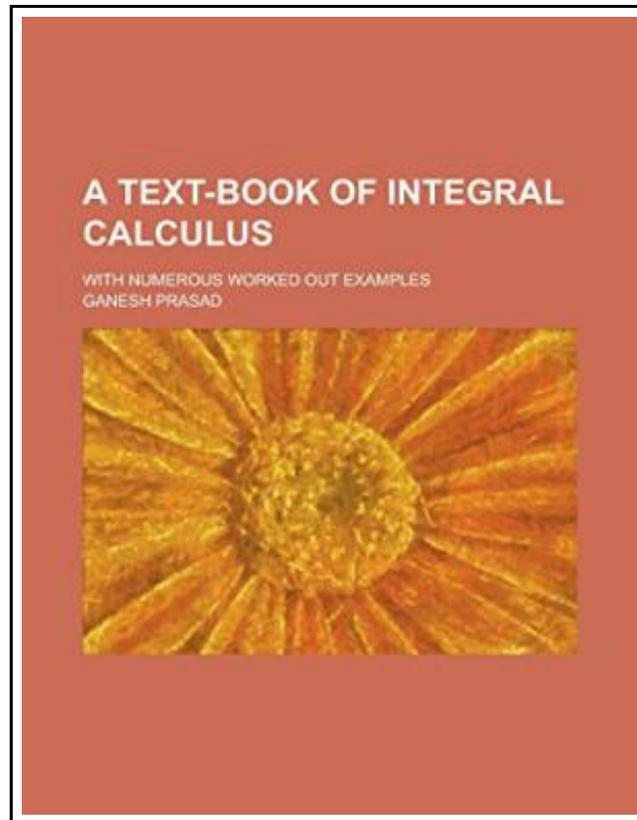


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Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1910 edition. Excerpt: .1.2+ r2 is 20. a (23) Prove that $\int_{a}^{b} f(x) dx = f(\frac{a+b}{2})(b-a) + \frac{1}{24}(2a-b)(b-a)^2$ dw. O O U !! (24) Show that $\int_{a}^{b} f(x) dx = \frac{1}{2}(f(a)+f(b))(b-a) + \frac{1}{24}(f'(a)-f'(b))(b-a)^3$ or 0 according as $f(x)$ is an even-0. 0 or odd function. Find the limit when $n \rightarrow \infty$ of the series $1 + \frac{1}{2^n} + \frac{1}{3^n} + \dots$ (25) If $f(x)$ varies continuously from a to b , show that the mean value of $f(x)$ between $x = a$ and $x = b$ is $\frac{1}{b-a} \int_a^b f(x) dx$. A semi-circular arc of radius a is divided into an infinite number of equal parts; show that the mean value of the square of the length of the chord joining the middle point of the arc to the points of equal section is $\frac{2a^2}{\pi}$ (London Univ., 1908. b (26) Define $f(x) = \int_a^x g(t) dt$ where a and b are two finite real numbers. a 1 Discuss the applicability of your definition to $f(x) = \int_a^x \frac{1}{t} dt$, distinguishing the two different cases which arise according as a is greater than, equal to or less than unity. Show that, in the limit when n is infinite, the value of $\int_1^n \frac{1}{t} dt$ is $\ln n$ explaining the meaning of the expression on the left-hand side. Math. Tripos, 1909. (31) If S denote the sum of the infinite series $\sin x + \sin^2 x + \sin^3 x + \dots$ prove that $\int_0^{\pi/2} S dx = \dots$



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