



## A Text-Book of Integral Calculus; With Numerous Worked Out Examples

By Ganesh Prasad

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:  $\int \frac{1}{\sqrt{1-x^2}} dx = \arcsin(x) + C$ . (23) Prove that  $\int_0^a f(x) dx = \int_0^a f(a-x) dx$ . (24) Show that  $\int_0^{\pi} f(\sin x) dx = \int_0^{\pi} f(\cos x) dx$  or 0 according as  $f(x)$  is an even or odd function. Find the limit when  $n \rightarrow \infty$  of the series  $1 + \frac{1}{n^2} + \frac{1}{(n+1)^2} + \dots$  (25) If  $f(z)$  varies continuously from  $a$  to  $b$ , show that the mean value of  $f(x)$  between  $z = a$  and  $z = b$  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  $\frac{2a^2}{\pi} (1 - \frac{1}{2})$  London Univ., 1908. (26) Define  $f(x)$ ...



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