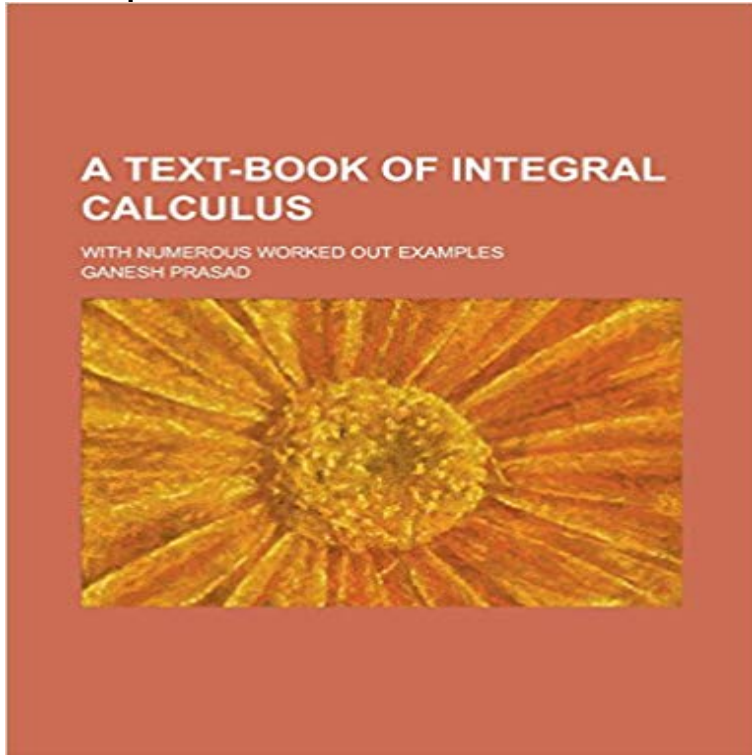


# A Text-book of Integral Calculus; With Numerous Worked Out Examples



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: ... $1.2+ r^2$  is 20. a (23) Prove that  $\int f(w) dx = f(w) + 4(2a-w) dw$ . O O U I! (24) Show that  $\int f'(a) dz = 2 \int f'(z) da$ : or 0 according as  $f'(m)$  is an even-0. 0 or odd function. Find the limit when  $n = \infty$  of the series  $\sum_{n=1}^{\infty} \frac{1}{n^2} Z^{(n+1)3+(-n+2)}$  (25) If  $f(z)$  varies continuously from  $a: = a$  to  $a: = 8$ , show that the mean value of  $f(m)$  between  $z = a$  and  $w = B$  is  $1 + \dots + g$ . B 1 E;  $\int j(x) dw$ . 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  $2a^2(1 - \frac{1}{2})$  London Univ., 1908. b (26) Define  $f'(a): \int dw$  where  $a$ . and  $b$  are two finite real numbers. a 1 Discuss the applicability of your definition to  $f d--;$ , distinguishing the Z O 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  $r; J; = 1 / F(s7+ 4./Z)?$  is 14 explaining the meaning of the expression on the left-hand side. Math. Tripos, 1909. (31) If  $S$  denote the sum of the infinite series  $\sin^7 x + \sin x + \sin x + \dots$ . 12 32 52 2 prove that  $\int S dw = 2---1$ . ((82) Apply the definition of a definite integral, as the limit of a sum, to CHAPTER VII. LENGTHS OF CURVES. Art. 50. Formulae for the Length of an Arc of a Curve. (a) Formula for Cartesian Equation. Let  $s$  denote the length of the arc of a curve measured from a fixed point up to the point  $(w, 1/)$ ; then (Dijf. Cal., Vol. I, Art. 33, Note 2)  $\int \dots$  at  $\int 1+(\%--12$  Hence, if  $A$  and  $B$  be two points on the curve having  $a$  and  $b$  for their abscissae, the length of the arc  $AB = \int_{EV} 1 + (go;)^2 dx$ . 3 (b) Formula for Polar Equation....

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