

DEFINITE INTEGRAL DEFINITION

$$\int_a^b f(x) dx = \lim_{n \rightarrow \infty} \sum_{k=1}^n f(x_k) \Delta x$$

where $\Delta x = \frac{b-a}{n}$ and $x_k = a + k \Delta x$

FUNDAMENTAL THEOREM OF CALCULUS

$$\int_a^b f(x) dx = [F(x)]_a^b = F(b) - F(a)$$

where f is continuous on $[a, b]$ and $F' = f$

INTEGRATION PROPERTIES

$$\int_a^b c f(x) dx = c \int_a^b f(x) dx$$

$$\int_a^b f(x) \pm g(x) dx = \int_a^b f(x) dx \pm \int_a^b g(x) dx$$

$$\int_a^a f(x) dx = 0 \text{ and } \int_a^b f(x) dx = - \int_b^a f(x) dx$$

$$\int_a^b f(x) dx + \int_b^c f(x) dx = \int_a^c f(x) dx$$

APPROXIMATING DEFINITE INTEGRALS

Left-hand and right-hand rectangle approximations

$$L_n = \Delta x \sum_{k=0}^{n-1} f(x_k) \quad R_n = \Delta x \sum_{k=1}^n f(x_k)$$

Midpoint Rule

$$M_n = \Delta x \sum_{k=0}^{n-1} f\left(\frac{x_k + x_{k+1}}{2}\right)$$

Trapezoid Rule

$$T_n = \frac{\Delta x}{2} (f(x_0) + 2f(x_1) + 2f(x_2) + \dots + f(x_n))$$

APPROXIMATION BY SIMPSON RULE FOR EVEN N

$$S_n = \frac{\Delta x}{3} (f(x_0) + 4f(x_1) + 2f(x_2) + \dots + 2f(x_{n-2}) + 4f(x_{n-1}) + f(x_n))$$

COMMON INTEGRALS

$$\int k dx = kx + C$$

$$\int x^n dx = \frac{1}{n+1} x^{n+1} + C, n \neq -1$$

$$\int x^{-1} dx = \int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{ax+b} dx = \frac{1}{a} \ln|ax+b| + C$$

$$\int \ln(x) dx = x \ln(x) - x + C$$

$$\int e^x dx = e^x + C$$

$$\int \cos x dx = \sin x + C$$

$$\int \sin x dx = -\cos x + C$$

$$\int \sec^2 x dx = \tan x + C$$

$$\int \sec x \tan x dx = \sec x + C$$

$$\int \csc x \cot x dx = -\csc x + C$$

$$\int \csc^2 x dx = -\cot x + C$$

$$\int \tan x dx = \ln|\sec x| + C$$

$$\int \sec x dx = \ln|\sec x + \tan x| + C$$

$$\int \frac{1}{a^2+u^2} dx = \frac{1}{a} \tan^{-1}\left(\frac{u}{a}\right) + C$$

$$\int \frac{1}{\sqrt{a^2-u^2}} dx = \sin^{-1}\left(\frac{u}{a}\right) + C$$

TRIGONOMETRIC SUBSTITUTION

EXPRESSION	SUBSTITUTION	EXPRESSION EVALUATION	IDENTITY USED
$\sqrt{a^2 - x^2}$	$x = a \sin \theta$ $dx = a \cos \theta d\theta$	$\sqrt{a^2 - a^2 \sin^2 \theta}$ $= a \cos \theta$	$1 - \sin^2 \theta$ $= \cos^2 \theta$
$\sqrt{x^2 - a^2}$	$x = a \sec \theta$ $dx = a \sec \theta \tan \theta d\theta$	$\sqrt{a^2 \sec^2 \theta - a^2}$ $= a \tan \theta$	$\sec^2 \theta - 1$ $= \tan^2 \theta$
$\sqrt{a^2 + x^2}$	$x = a \tan \theta$ $dx = a \sec^2 \theta d\theta$	$\sqrt{a^2 + a^2 \tan^2 \theta}$ $= a \sec \theta$	$1 + \tan^2 \theta$ $= \sec^2 \theta$

INTEGRATION BY SUBSTITUTION

$$\int_a^b f(g(x)) g'(x) dx = \int_{g(a)}^{g(b)} f(u) du$$

where $u = g(x)$ and $du = g'(x) dx$

INTEGRATION BY PARTS

$$\int u dv = uv - \int v du \quad \text{where } v = \int dv$$

or

$$\int f(x) g'(x) dx = f(x) g(x) - \int f'(x) g(x) dx$$



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Calculus Integrals I

William Fogg Osgood



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Integral Calculus Walter Ledermann, 1964 *Elements of the Integral Calculus* William Elwood Byerly, 1881

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Fast Start Integral Calculus Daniel Ashlock, 2022-05-31 This book introduces integrals the fundamental theorem of calculus initial value problems and Riemann sums It introduces properties of polynomials including roots and multiplicity and uses them as a framework for introducing additional calculus concepts including Newton's method L'Hôpital's Rule and Rolle's theorem Both the differential and integral calculus of parametric polar and vector functions are introduced The book concludes with a survey of methods of integration including u substitution integration by parts special trigonometric integrals trigonometric substitution and partial fractions

The Differential and Integral Calculus Augustus De Morgan, 1842

Multiple Integrals in the Calculus of Variations Charles Bradfield Morrey Jr., 2009-11-03 From the reviews the book contains a wealth of material essential to the researcher concerned with multiple integral variational problems and with elliptic partial differential equations The book not only reports the researches of the author but also the contributions of his contemporaries in the same and related fields The book undoubtedly will become a standard reference for researchers in these areas The book is addressed mainly to mature mathematical analysts However any student of analysis will be greatly rewarded by a careful study of this book M R Hestenes in Journal of Optimization Theory and Applications The work intertwines in masterly fashion results of classical analysis topology and the theory of manifolds and thus presents a comprehensive treatise of the theory of multiple integral variational problems L Schmetterer in Monatshefte für Mathematik The book is very clearly exposed and contains the last modern theory in this domain A comprehensive bibliography ends the book M Coroi Nedeleu in Revue Roumaine de Mathématiques Pures et Appliquées

Introduction to Integral Calculus Systematic Studies with Engineering Applications Jai Rathod, 2015-08 An integral is a mathematical object that can be interpreted as an area or a generalization of area Integrals together with derivatives are the fundamental objects of calculus Other words for integral include antiderivative and primitive The Riemann integral is the simplest integral definition and the only one usually encountered in physics and elementary calculus The study of integral calculus includes integrals and their inverse differentials derivatives anti derivatives and approximating the area of curvilinear regions Integration is an important function of calculus and introduction to integral calculus combines fundamental concepts with scientific problems to develop intuition and skills for solving mathematical problems related to engineering and the physical sciences The book provides a solid introduction to integral calculus and feature applications of integration solutions of differential equations and evaluation methods This book explores the integral calculus and its plentiful applications in engineering and the physical sciences A basic understanding of integral calculus combined with

scientific problems and throughout the book covers the numerous applications of calculus as well as presents the topic as a deep rich intellectual achievement The needed fundamental information is presented in addition to plentiful references

Elementary Integral Calculus G. Lewingdon Parsons, 2016-07-28 Originally published in 1926 this book was written to provide mathematical and scientific students with an introduction to the subject of integral calculus The text was largely planned around the syllabus for the Higher Certificate Examination A short historical survey is included This book will be of value to anyone with an interest in integral calculus mathematics and the history of education *Integral Calculus for Beginners* Alfred Lodge, 2016-05-15 This is a companion volume to Professor Lodge's *Differential Calculus for Beginners* In that volume the student was prepared to practice retracing his steps and thus without the use of the integral notation to perform the operation of integration or anti differentiation in simple cases Hence the author is in a position to commence this volume by exhibiting an integral as the limit of a sum and that no time is wasted in getting to business is evidenced by the fact that the centre of gravity of a parabolic area is worked out at p 9 The standard methods of integration are clearly explained and illustrated in the first five chapters The most novel feature of the book is perhaps the seventh chapter dealing with approximate methods of integration Here after the well known rules of Simpson and Weddle approximate formulae recently devised by Mr R W K Edwards and Professor Lodge himself are given for dealing with the case in which the curvilinear boundary of a required area cuts the axis at right angles a case for which as is well known rules of the Simpson type are not well fitted Interesting approximate formulae for the elliptic integrals are also given A chapter on Moments of Inertia is very welcome and the book concludes with a chapter on the Gamma functions and with chapters on the differential equations other than partial of most frequent occurrence The suggestion may be submitted for consideration in a future edition that while doubtless the theory of Amster's planimeter is too difficult for a first book on the Integral Calculus yet some of the earlier instruments described in Professor Henrici's British Association report 1894 perform the process of summing up $y dx$ in an obvious manner and the Integrographs of Professors Boys and Abdank Abakanowicz are also exceedingly interesting concrete embodiments of Integration viewed as the converse of differentiation Professor Lodge's book is likely to maintain the position which his book on the Differential Calculus has won The Mathematical Gazette An elementary treatise on the integral calculus, containing applications to plane curves and surfaces Benjamin Williamson, 1875 *Text Book of Integral Calculus* A.K. Sharma, 2005 This book Text Book of Integral Calculus has been specially written to meet the requirements of B A B Sc students of all Indian Universities The subject matter has been discussed in such a simple way that the students will find no difficulty to understand it The proof of various theorems and examples has been given with minute details Each chapter of this book contains complete theory and large number of solved examples Sufficient problems have also been selected from various Indian Universities Contents Integration of Trigonometric Functions Reduction Formulae Trigonometric Functions *Multiple Integrals* Walter Ledermann, 2012-12-06 The aim of this book is to give an elementary

treatment of multiple integrals The notions of integrals extended over a curve a plane region a surface and a solid are introduced in turn and methods for evaluating these integrals are presented in detail Especial reference is made to the results required in Physics and other mathematical sciences in which multiple integrals are an indispensable tool A full theoretical discussion of this topic would involve deep problems of analysis and topology which are outside the scope of this volume and concessions had to be made in respect of completeness without it is hoped impairing precision and a reasonable standard of rigour As in the author's Integral Calculus in this series the main existence theorems are first explained informally and then stated exactly but not proved Topological difficulties are circumvented by imposing some what stringent though no unrealistic restrictions on the regions of integration Numerous examples are worked out in the text and each chapter is followed by a set of exercises My thanks are due to my colleague Dr S Swierczkowski who read the manuscript and made valuable suggestions w LEDERMANN The University of Sussex Brighton

An Elementary Treatise on the Integral Calculus Benjamin Williamson, 1884 *A First Course in the Differential and Integral Calculus* William Fogg Osgood, 1914 **Differential and Integral Calculus** Augustus De Morgan, 2007-04-01 In this early textbook by mathematician Augustus De Morgan and first published in 1836 serious students of math will find useful lessons explanations and diagrams Math and math textbooks of his time were found to be generally inaccessible to the public at large so De Morgan who believed that everyone should be educated in mathematics because it was so essential to science and modern life relies on simple straightforward and easy to understand language despite the depth of his topic Among the areas covered here are infinitely small quantities infinite series ratios of continuously increasing or decreasing quantities and algebraical geometry British mathematician Augustus De Morgan 1806-1871 invented the term mathematical induction Among his many published works is Trigonometry and Double Algebra and A Budget of Paradoxes *Integral Calculus* Henry Bayard Phillips, 1917 **Elements of the Integral Calculus** William Elwood Byerly, 1889 *Elements of the Integral Calculus* William Elwood Byerly, 2015-06-04 Excerpt from Elements of the Integral Calculus With a Key to the Solution of Differential Equations and a Short Table of Integrals Elements of the Integral Calculus With a Key to the Solution of Differential Equations and a Short Table of Integrals was written by William Elwood Byerly in 1892 This is a 400 page book containing 69324 words and 46 pictures Search Inside is enabled for this title About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works *The Differential and Integral Calculus* Augustus De Morgan, 2017-08-25 This work has been selected by scholars as being culturally important and is part

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