ELEMENTS OF THE DIFFERENTIAL CALCULUS, WITH EXAMPLES AND APPLICATIONS. A TEXT BOOK

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Elements of the Differential Calculus, with Examples and Applications. A Text Book by $\,$ W. E. Byerly

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W. E. BYERLY

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A TEXT BOOK

BA

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PREFACE.

The following book, which embodies the results of my own experience in teaching the Calculus at Cornell and Harvard Universities, is intended for a text-book, and not for an exhaustive treatise.

Its peculiarities are the rigorous use of the Doctrine of Limits as a foundation of the subject, and as preliminary to the adoption of the more direct and practically convenient infinitesimal notation and nomenclature; the early introduction of a few simple formulas and methods for integrating; a rather elaborate treatment of the use of infinitesimals in pure geometry; and the attempt to excite and keep up the interest of the student by bringing in throughout the whole book, and not merely at the end, numerous applications to practical problems in geometry and mechanics.

I am greatly indebted to Prof. J. M. Peirce, from whose lectures I have derived many suggestions, and to the works of Benjamin Peirce, Todhunter, Duhamel, and Bertrand, upon which I have drawn freely.

W. E. BYERLY.

CAMBRIDGE, October, 1879.

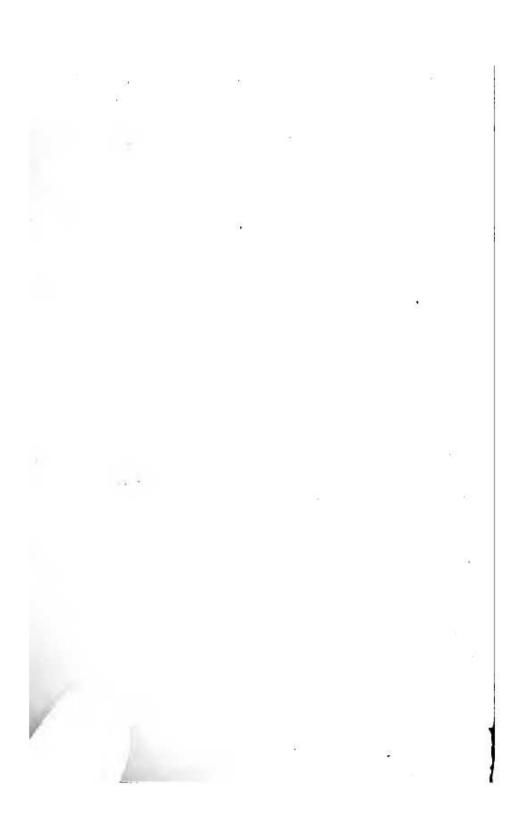


TABLE OF CONTENTS.

CHAPTER I.

Artic	INTRODUCTION.	
1	Definition of variable and constant	1
	Definition of function and independent variable	
	Symbols by which functional dependence is expressed	2
	Definition of increment. Notation for an increment. An in-	~
7	crement may be positive or negative	2
5.	Definition of the limit of a variable	3
6.	Examples of limits in Algebra	3
	Examples of limits in Geometry	4
8.	The fundamental proposition in the Theory of Limits	5
9.	Application to the proof of the theorem that the area of a circle	
	is one-half the product of the circumference by the radius	5
10.	Importance of the clear conception of a limit	6
	The velocity of a moving body. Mean velocity; actual velocity	
	at any instant; uniform velocity; variable velocity	6
12.	Actual velocity easily indicated by aid of the increment notation	7
	Velocity of a falling body	7
	The direction of the tangent at any point of a given curve.	
	Definition of tangent as limiting case of secant	8
15.	The inclination of a curve to the axis of X easily indicated by	675
	the aid of the increment notation	8
16.	The inclination of a parabola to the axis of X	
	Fundamental object of the Differential Calculus	10
		ैं
	CHAPTER II.	
	DIFFERENTIATION OF ALGEBRAIC FUNCTIONS.	
18.	Definition of derivative. Derivative of a constant	11
	General method of finding the derivative of any given function.	1:50
	General formula for a derivative. Examples	11

DIFFERENTIAL CALCULUS.

Artic	Maria de la companya	age.
20.	Classification of functions	12
21.	Differentiation of the product of a constant and the variable; of	
	a power of the variable, where the exponent is a positive	
	integer	13
	시대장인 공무를 가장 할 때 가장 물건들이 있었다면 하는 것이 되었다. 그 사람들이 얼마를 하는 것이 되었다. 그는 것이 없는 것이 되었다. 그는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.	14
23.	Derivative of a product of functions	15
24.	Derivative of a quotient of functions. Examples	17
	Derivative of a function of a function of the variable	18
26.	Derivative of a power of the variable where the exponent is	
	negative or fractional. Complete set of formulas for the	7712
	differentiation of Algebraic functions. Examples	19
		٠
	CHAPTER III.	
	APPLICATIONS.	
	Tangents and Normals.	
27.	Direction of tangent and normal to a plane curve	22
	Equations of tangent and normal. Subtangent. Subnormal. Length of tangent. Length of normal. Examples	
29.	Derivative may sometimes be found by solving an equation.	23
	Examples	25
	Indeterminate Forms.	
30.	Definition of infinite and infinitely great	26
	Value of a function corresponding to an infinite value of the	
00	variable	20
32.	of the variable	07
33.	The expressions $\frac{0}{0}$, $\frac{\infty}{\infty}$ and $0 \times \infty$, called indeterminate forms.	
	When definite values can be attached to them	
	Treatment of the form $\frac{0}{0}$. Examples	
35.	Reduction of the forms $\overset{\infty}{\approx}$ and $0 \times \infty$ to the form $\frac{0}{0}$	30
	Maxima and Minima of a Continuous Function.	
20018	Continuous change. Continuous function	31
37.	If a function increases with the increase of the variable, its	
	derivative is positive; if it decreases, negative	
70.00	Value of derivative shows rate of increase of function	
39.	Definition of maximum and minimum values of a function	32

	TABLE OF CONTENTS.	vii	
AH	orie.	Page.	
	. Derivative zero at a maximum or a minimum		
41	. Geometrical illustration	33	
42	. Sign of derivative near a zero value shown by the value of its		
	own derivative	34	
43	Derivatives of different orders		
44	. Numerical example	34	
45	. Investigation of a minimum	35	
46	. Case where the third derivative must be used. Examples	35	
47	. General rule for discovering maxima and minima. Examples .	36	
48	. Use of auxiliary variables. Examples	38	
49	Examples	39	
	Integration.		
50	. Statement of the problem of finding the distance traversed by a		
	falling body, given the velocity		
51	. Statement of the problem of finding the area bounded by a given		
	curve	41	
52	. Statement of the problem of finding the length of an arc of a		
	given curve		
58	. Integration. Integral		
	. Arbitrary constant in integration		
	. Some formulas for direct integration		
	Solution of problem stated in Article 50		
	. Example under problem stated in Article 51. Examples		
	Examples under problem stated in Article 52		
	CHAPTER IV.		
	TRANSCENDENTAL FUNCTIONS.		88
59	Differentiation of log x requires the investigation of the limit		
	of $\left(1+\frac{1}{m}\right)^m$		
GG	Expansion of $\left(1+\frac{1}{m}\right)^m$ by the Binomial Theorem		
6	. Proof that the limit in question is the sum of a well-known		14
	series		
6	This series is taken as the base of the natural system of loga.		
	rithms. Computation of its numerical value		
68	3. Extension of the proof given above to the cases where m is not		
	a positive integer		
	I. Differentiation of $\log x$ completed		
60	5. Differentiation of az. Examples	55	

DIFFERENTIAL CALCULUS.

Artic	Trigonometric Punctions.	2230
	Circular measure of an angle. Reduction from degree to cir-	•
	cular measure. Value of the sait in circular measure Differentiation of sin z requires the investigation of the limit	5 7
	$\frac{\sin \Delta z}{\Delta z}$ and $\frac{1-\cos \Delta z}{\Delta z}$	57
68.	Investigation of these limits	58
	Differentiation of the Trigonometric Functions. Examples .	59
70.	Anti- or inverse Trigonometric Functions	60
	Differentiation of the Anti-Trigonometric Functions. Examples	60
72.	Anti- or inverse notation. Differentiation of anti- functions in general	61
72	The derivative of y with respect to z , and the derivative of z	01
	with respect to y, are reciprocals. Examples	62
	CHAPTER V.	
	INTEGRATION.	
71	Formulas for direct integration	65
	Integration by substitution. Examples	66
	If fx can be integrated, $f(a + bx)$ can always be integrated. Ex-	, Till
	amples	67
77.	$f_x \frac{1}{\sqrt{(a^2-x^2)}}$. Examples	67
78.	$f_s \frac{1}{\sqrt{(\alpha^t + x^t)}}$. Example	68
79		69
	f, sin'z. Examples	
	Use of integration by substitution and integration by parts in	
	combination. Examples	70
82.	Simplification by an algebraic transformation. Examples	
	Applications.	
83.	Area of a segment of a circle; of an ellipse; of an hyperbola .	72
84.	Length of an arc of a circle	74
85.	Length of an arc of a parabola. Example	75
	CHAPTER VI.	
	CURVATURE.	
80	Total curvature; mean curvature; actual curvature. Formula	
30.	for actual curvature	
		2557