





# CONTENTS

## VOLUME I

	PAGE
INTRODUCTION	I
List of Symbols concerning Means of Interpolation	19
PART I. INDEX ACCORDING TO FUNCTIONS	
SECTION	
1 Primes, Factors, Products and Quotients	21
2 Powers, Positive, Negative and Fractional	27
3 Factorials, Binomial Coefficients, Partitions, etc.	47
4 Bernoulli and Euler Numbers and Polynomials. Sums of Powers and of Inverse Powers. Differences and Derivatives of Zero, etc.	65
5 Mathematical Constants, $\pi$ , $e$ , $M$ , $\gamma$ , etc.; Multiples and Powers. Roots of Algebraic and Transcendental Equations. Miscellaneous Constants. Conversion Tables	118
6 Common Logarithms, Antilogarithms, Addition and Subtraction Logarithms	159
7 Natural Trigonometrical Functions. Miscellaneous Functions connected with the Circle and the Sphere	169
8 Logarithms of Trigonometrical Functions	196
9 Inverse Circular Functions. Trigonometrical Functions of Two or Three Arguments (including Products, Solutions of Plane and Spherical Triangles, etc.). Sexagesimal Interpolation Tables	207
10 Natural and Logarithmic Values of Exponential and Hyperbolic Functions	230
11 Natural Logarithms of Numbers and of Trigonometrical Functions. Inverse Hyperbolic Functions	248
12 The Gudermannian, Combinations of Circular and Hyperbolic Functions, Circular and Hyperbolic Functions of a Complex Variable	258
13 Exponential and Logarithmic Integrals, Sine and Cosine Integrals, etc.	267
14 Factorial or Gamma Function, Psi Function, Polygamma Functions, Beta Function, Incomplete Gamma and Beta Functions	291
15 The Error Integral, Higher Integrals, Derivatives. Hermite Polynomials and Functions. Moments	318
16 Legendre Functions	357
17 Bessel Functions of Real Argument	375
18 Bessel Functions of Pure Imaginary Argument, or Modified Bessel Functions	417
19 Bessel Functions of Complex Argument. Kelvin Functions	432
20 Miscellaneous Bessel and Related Functions	446
21 Elliptic Integrals, Elliptic Functions, Theta Functions	485
22 Miscellaneous Higher Mathematical Functions	516
23 Interpolation, Numerical Differentiation and Integration, Curve-Fitting	568
24 Tables and Schedules for Harmonic Analysis, etc.	601

VOLUME II: BIBLIOGRAPHY, ERRORS, INDEX TO INTRODUCTION AND PART I