

CONTENTS

Part I—Interpolation

CHAPTER	PAGE
I. Differences, Operations. Interpolation with Equal Intervals of the Argument	1
II. Interpolation for Unequal Intervals of the Argument	41
III. Central Differences. Interpolation Formulas	65
IV. Inverse Interpolation	82
V. Numerical Differentiation	92
VI. Numerical Quadrature	100
VII. Summation of Series	125
VIII. Difference Equations	145
IX. Bernoulli and Euler Polynomials	173
X. Remainder Terms in Interpolation Formulas	189

Part II—Numerical Analysis

XI. Roots of Polynomial and Transcendental Equations in one Variable	207
XII. Simultaneous Linear Algebraic Equations	239
XIII. Numerical Solution of Ordinary Differential Equations	253
XIV. Linear Programming	278
Answers	295
Index	304
Logarithmic Tables	305