

CONTENTS

PREFACE	v
CHAPTER I. Complex Numbers	1
II. Polynomials in One Variable	35
III. Algebraic Equations and Their Roots	50
IV. Limits of Roots. Rational Roots	70
V. Cubic and Biquadratic Equations	82
VI. Separation of Roots	99
VII. The Theorem of Sturm	138
VIII. Approximate Evaluation of Roots	151
IX. Determinants and Matrices	181
X. Solution of Linear Equations by Determinants. Some Applications of Determinants to Geometry	231
XI. Symmetric Functions	257
XII. Elimination	277
APPENDIX I. The Fundamental Theorem of Algebra	293
II. On the Theorem of Vincent	298
III. On Equations Whose Roots Have Negative Real Part	304
IV. Iterative Solution of the Frequency Equation	310
V. Graeffe's Method	318
ANSWERS	333
INDEX	345