CONTENTS

Preface
Acknowledgements

PART - A
A Study of Biorthogonal Polynomials ..  1 - 11

Chapter-I
Biorthogonal Polynomials Suggested by
the Jacobi Polynomials  ..  12 - 36

Chapter-II
Results Involving a Pair of Biorthogonal
Polynomials Related to the Jacobi
Polynomials  ..  57 - 62

Chapter-III
On the Second Set \( \{ K_n(\alpha, \beta, \gamma; x) \} \) of
Biorthogonal Polynomials Suggested by
the Jacobi Polynomials  ..  63 - 80

Chapter-IV
Bilateral Generating Functions For
Biorthogonal Polynomials Suggested
by the Jacobi Polynomials  ..  81 - 95

(Continue ...
Chapter-V

Biconvex Polynomials Suggested by the Hermite Polynomials. 94-112

Chapter-VI

Additional Proof of Biorthogonality For a Pair of Polynomials Suggested by the Hermite Polynomials and Related Results 113-130

PART - B

A Study of Orthogonal and Related Polynomial Sets. 131-145

Chapter-VII

Multilinear Generating Functions For the Jacobi Polynomials and For Their Two-Variable Generalizations. 146-157

Chapter-VIII

Obtaining Generating Functions For Classical Orthogonal Polynomials by Hermite's Method. 158-167

Chapter-IX

Multilateral Generating Functions For the Products Of Hypergeometric Polynomials and Several Generalized Hypergeometric Functions. 168-187

Chapter-X

A Characterization For Modified Polynomial Sets. 188-202

Appendix

List of papers not included in the Thesis 203.