

Contents

Preface	ix
The mathematical contributions of Richard Askey GEORGE GASPER, MOURAD E. H. ISMAIL, TOM KOORNWINDER, PAUL NEVAI, AND DENNIS W. STANTON	1
Curriculum vitae of Richard A. Askey MOURAD E. H. ISMAIL AND DENNIS W. STANTON	19
Reformulations of a partition theorem of Göllnitz and q -series identities KRISHNASWAMI ALLADI	31
Schur's theorem, partitions with odd parts and the Al-Salam-Carlitz polynomials GEORGE E. ANDREWS	45
Singularity and monodromy of quasi-hypergeometric functions KAZUHIKO AOMOTO AND KAZUMOTO IGUCHI	57
Incomplete elliptic integrals in Ramanujan's lost notebook BRUCE C. BERNDT, HENG HUAT CHAN, AND SEN-SHAN HUANG	79
Measure algebras associated with orthogonal polynomials WILLIAM C. CONNETT AND ALAN L. SCHWARTZ	127
Word straightening and q -Eulerian calculus DOMINIQUE FOATA AND GUONIU HAN	141
Path generating transforms OMAR FODA, KEITH S. M. LEE, YAROSLAV PUGAI, AND TREVOR A. WELSH	157
q -extensions of Erdélyi's fractional integral representations for hypergeometric functions and some summation formulas for double q -Kampé de Fériet series GEORGE GASPER	187
Numerical investigation of basic Fourier series R. WM. GOSPER, JR. AND SERGEI K. SUSLOV	199
An identity of Ramanujan, and applications MICHAEL D. HIRSCHHORN	229

Addition theorems for the q -exponential function MOURAD E. H. ISMAIL AND DENNIS W. STANTON	235
The Schur functions for partitions with complex parts KEVIN W. J. KAPELL	247
On Forrester's generalization of Morris constant term identity JYODI KANEKO	271
New combinatorial formula for modified Hall-Littlewood polynomials ANATOL N. KIRILLOV	283
Schur function identities and the number of perfect matchings of Holey Aztec rectangles CHRISTIAN KRATTENTHALER	335
A new $U(n)$ generalization of the Jacobi triple product identity STEPHEN C. MILNE	351
A new quantum algebraic interpretation of the Askey-Wilson polynomials HJALMAR ROSENGREN	371
Some properties of Koornwinder polynomials SIDDHARTH SAHI	395
A new multidimensional matrix inversion in A_r MICHAEL SCHLOSSER	413