

Contents

Preface	vii
Two dimensional directed lattice walks with boundaries ARVIND AYYER and DORON ZEILBERGER	1
Computer-assisted discovery and proof DAVID H. BAILEY and JONATHAN M. BORWEIN	21
On the collection of integers that index the fixed points of maps on the space of rational functions CURTIS D. BENNETT and EDWARD MOSTEIG	53
Questionable claims found in Ramanujan's lost notebook BRUCE C. BERNDT, O-YEAT CHAN, SUNG-GEUN LIM, and ALEXANDRU ZAHARESCU	69
Partition polynomials: Asymptotics and zeros ROBERT P. BOYER and WILLIAM M. Y. GOH	99
Hypergeometric functions related to series acceleration formulas DAVID M. BRADLEY	113
Using integer relations algorithms for finding relationships among functions MARC CHAMBERLAND	127
Conjecturing the optimal order of the components of the Li/Keiper constants MARK W. COFFEY	135
An experimental approach to equation-solving: Symmetry and dynamics SCOTT CRASS	161
Multidimensional radix representations and Hot Spot Theorem EVA CURRY	181
Some properties of the inverse error function DIEGO DOMINICI	191
On the Laplace transform of the Psi function M. LAWRENCE GLASSER and DANTE MANNA	205
Computer algebra for special function inequalities MANUEL KAUERS	215
An isodiametric problem for equilateral polygons MICHAEL J. MOSSINGHOFF	237

Some Euler-type integrals and a new rational series for Euler's constant OLIVIER OLOA	253
Disturbing the q -Dyson conjecture ANDREW V. SILLS	265
Which partial sums of the Taylor series for e are convergents to e ? (and a link to the primes 2, 5, 13, 37, 463) JONATHAN SONDOW and KYLE SCHALM	273
Symbol-crunching with the gambler's ruin problem DORON ZEILBERGER	285