Contents

A Biography of Leon Ehrenpreis xiii
Yael Nachama (Ehrenpreis) Meyer

Differences of Partition Functions: The Anti-telescoping Method 1
George E. Andrews

The Extremal Plurisubharmonic Function for Linear Growth 21
David Bainbridge

Mahonian Partition Identities via Polyhedral Geometry 41
Matthias Beck, Benjamin Braun, and Nguyen Le

Second-Order Modular Forms with Characters 55
Thomas Blann and Nikolaos Diamantis

Disjointness of Moebius from Horocycle Flows 67
J. Bourgain, P. Sarnak, and T. Ziegler

Duality and Differential Operators for Harmonic Maass Forms 85
Kathrin Bringmann, Ben Kane, and Robert C. Rhoades

Function Theory Related to the Group $\mathrm{PSL}_2(\mathbb{R})$ 107
R. Bruggeman, J. Lewis, and D. Zagier

Analysis of Degenerate Diffusion Operators Arising in Population Biology 203
Charles L. Epstein and Rafe Mazzeo

A Matrix Related to the Theorem of Fermat and the Goldbach Conjecture 217
Hershel M. Farkas

Continuous Solutions of Linear Equations 233
Charles Fefferman and János Kollár

Recurrence for Stationary Group Actions 283
Hillel Furstenberg and Eli Glasner

On the Honda - Kaneko Congruences 293
P. Guerzhoy

Some Intrinsic Constructions on Compact Riemann Surfaces 303
Robert C. Gunning

The Parallel Refractor 325
Cristian E. Gutiérrez and Federico Tournier

On a Theorem of N. Katz and Bases in Irreducible Representations 335
David Kazhdan

Vector-Valued Modular Forms with an Unnatural Boundary 341
Marvin Knopp† and Geoffrey Mason

Loss of Derivatives 353
J.J. Kohn

On an Oscillatory Result for the Coefficients of General Dirichlet Series 371
Winfried Kohnen and Wladimir de Azevedo Pribitkin

Representation Varieties of Fuchsian Groups 375
Michael Larsen and Alexander Lubotzky

Two Embedding Theorems 399
Gerardo A. Mendoza

Cubature Formulas and Discrete Fourier Transform on Compact Manifolds 431
Isaac Z. Pesenson and Daryl Geller†

The Moment Zeta Function and Applications 455
Igor Rivin

A Transcendence Criterion for CM on Some Families of Calabi–Yau Manifolds 475
Paula Tretkoff and Marvin D. Tretkoff

Ehrenpreis and the Fundamental Principle 491
François Treves

Minimal Entire Functions 509
Benjamin Weiss

A Conjecture by Leon Ehrenpreis About Zeroes of Exponential Polynomials 517
Alain Yger

The Discrete Analog of the Malgrange–Ehrenpreis Theorem 537
Doron Zeilberger

The Legacy of Leon Ehrenpreis 543
Hershel M. Farkas, Robert C. Gunning, and B.A. Taylor