Contents

Preface iii

Foreword v

Members of the Advisory Board vi

K. Venkatachaliengar

G. N. Srinivasa Prasanna and K. V. Venkataramu vii

K. Venkatachaliengar

Bruce C. Berndt xiii

A Review of Venkatachaliengar’s Book on Elliptic Functions

Shaun Cooper xvii

List of Publications of K. Venkatachaliengar xxxix

On a Generalized Basic Series and New Combinatorial Interpretations of Göllnitz–Gordon Identities

S. Anand and A. K. Agarwal 1–8

Series for 1/π Arising from Certain Representations for Eisenstein Series in Ramanujan’s Second Notebook

Nayandeep Deka Baruah and Narayan Nayak 9–30

What is a q-Series?

Bruce C. Berndt 31–51

A Proof of the General Theta Transformation Formula

Bruce C. Berndt, Chadwick Gugg, Sarachai Kongsiriwong and Johann Thiel 53–62

Some Applications of Ramanujan’s Remarkable Summation Formula

S. Bhargava 63–72
Contents

A New Proof of Winquist’s Identity  
Song Heng Chan  
73–78

Theta Function Identities for Level 15  
Shaun Cooper  
79–86

Biranks for Partitions into 2 Colors  
F. G. Garvan  
87–111

The Number of Representations of a Number by Various Forms Involving Triangles, Squares, Pentagons and Octagons  
Michael D. Hirschhorn  
113–124

On the 2-, 3-, 4- and 6-Dissections of Ramanujan’s Cubic Continued Fraction and its Reciprocal  
Michael D. Hirschhorn and Roselin  
125–138

Coupled Systems of Differential Equations for Modular forms of Level \( n \)  
Tim Huber  
139–156

The Overcubic Partition Function mod 3  
Byungchan Kim  
157–163

A Theta Function Identity and Applications  
Zhi-Guo Liu  
165–183

Some New Schl"afli-Type Modular Equations in the Quartic Theory  
M. S. Mahadeva Naika and S. Chandan Kumar  
185–199