

Contents

Preface		iii
Foreword		v
Members of the Advisory Board		vi
K. Venkatachaliengar	<i>G. N. Srinivasa Prasanna and K. V. Venkataramu</i>	vii
K. Venkatachaliengar	<i>Bruce C. Berndt</i>	xiii
A Review of Venkatachaliengar's Book on Elliptic Functions	<i>Shaun Cooper</i>	xvii
List of Publications of K. Venkatachaliengar		xxxix
On a Generalized Basic Series and New Combinatorial Interpretations of Göllnitz–Gordon Identities	<i>S. Anand and A. K. Agarwal</i>	1–8
Series for $1/\pi$ Arising from Certain Representations for Eisenstein Series in Ramanujan's Second Notebook	<i>Nayandeep Dea Baruah and Narayan Nayak</i>	9–30
What is a q -Series?	<i>Bruce C. Berndt</i>	31–51
A Proof of the General Theta Transformation Formula	<i>Bruce C. Berndt, Chadwick Gugg, Sarachai Kongsiriwong and Johann Thiel</i>	53–62
Some Applications of Ramanujan's Remarkable Summation Formula	<i>S. Bhargava</i>	63–72

A New Proof of Winquist's Identity	<i>Song Heng Chan</i>	73–78
Theta Function Identities for Level 15	<i>Shaun Cooper</i>	79–86
Biranks for Partitions into 2 Colors	<i>F. G. Garvan</i>	87–111
The Number of Representations of a Number by Various Forms Involving Triangles, Squares, Pentagons and Octagons	<i>Michael D. Hirschhorn</i>	113–124
On the 2-, 3-, 4- and 6-Dissections of Ramanujan's Cubic Continued Fraction and its Reciprocal	<i>Michael D. Hirschhorn and Roselin</i>	125–138
Coupled Systems of Differential Equations for Modular forms of Level n	<i>Tim Huber</i>	139–156
The Overcubic Partition Function mod 3	<i>Byungchan Kim</i>	157–163
A Theta Function Identity and Applications	<i>Zhi-Guo Liu</i>	165–183
Some New Schläfli-Type Modular Equations in the Quartic Theory	<i>M. S. Mahadeva Naika and S. Chandan Kumar</i>	185–199