

Contents

Foreword by Professor Shih Choon Fong	xiii
Foreword by Professor Cham Tao Soon	xv
Preface	xvii
Acknowledgments	xxi
I. Beauty for the Eye	
Infinity and Infinite Series	1
(Getting acquainted with Big and Small Numbers)	
π -series	23
(The Inexplicable and Elegant Expressions of π)	
e -series	55
(Infinite Series with Sums that change like Magic Putty)	
Other Interesting Number Series	101
(Millions of Ways of Adding up to 1)	
II: Feast for the Mind	
Easy Proofs	141
(Even a six-year-old child can understand some of these)	

Less Easy Proofs (With occasional “eureka” moments)	177
Not-So-Easy Proofs (Even Newton, Liebnez and Bernoulli would have loved to see how Euler did it)	209
Appendix	
Elementary Trigonometry	235
Elementary Series	237
Elementary Calculus	238