

## Contents

Preface	ix
Richard Stanley's Short Curriculum Vitae	xi
Publications, with commentary by the author RICHARD P. STANLEY	1
A survey of subdivisions and local $h$ -vectors CHRISTOS A. ATHANASIADIS	39
Stanley's major contributions to Ehrhart theory MATTHIAS BECK	53
<i>"Even more intriguing, if rather less plausible..."</i> Face numbers of convex polytopes LOUIS J. BILLERA	65
The contributions of Stanley to the fabric of symmetric and quasisymmetric functions SARA C. BILLEY and PETER R. W. MCNAMARA	83
<i>"Let <math>\Delta</math> be a Cohen-Macaulay complex ..."</i> ANDERS BJÖRNER	105
Stanley's work on unimodality FRANCESCO BRENTI	119
Five stories for Richard PERSI DIACONIS	131
Some new applications of the Stanley-Macdonald Pieri rules ADRIANO GARSIA, JIM HAGLUND, GUOCE XIN, and MIKE ZABROCKI	141
A historical survey on $P$ -partitions IRA M. GESSEL	169
Transitive factorizations of permutations and geometry I. P. GOULDEN and D. M. JACKSON	189
Stanley's influence on monomial ideals TAKAYUKI HIBI	203
Cohen-Macaulay varieties, geometric complexes, and combinatorics MELVIN HOCHSTER	219

Plane partitions in the work of Richard Stanley and his school C. KRATTENTHALER	231
Combinatorial representation theory of Lie algebras. Richard Stanley's work and the way it was continued CRISTIAN LENART	263
Lessons I learned from Richard Stanley JAMES PROPP	279
Richard Stanley through a crystal lens and from a random angle ANNE SCHILLING	287
From poset topology to $q$ -Eulerian polynomials to Stanley's chromatic symmetric functions JOHN SHARESHIAN and MICHELLE L. WACHS	301
Stanley character polynomials PIOTR ŚNIADY	323
Some problems arising from partition poset homology SHEILA SUNDARAM	335