

CONTENTS

| | |
|---|-----|
| Foreword | ix |
| Preface | xi |
| Introduction to Invariant Theory in Superalgebras | 1 |
| Gian-Carlo Rota and Bernd Sturmfels | |
| Implementation of the Straightening Algorithm..... | 36 |
| of Classical Invariant Theory | |
| Neil White | |
| Canonical Forms of Binary Forms: | |
| Variations on a Theme of Sylvester | 46 |
| Joseph P.S. Kung | |
| Invariant Theory, Equivalence Problems, | |
| and the Calculus of Variations | 59 |
| Peter J. Olver | |
| A Survey of Invariant Theory Applied to Normal | |
| Forms of Vectorfields with Nilpotent Linear Part | 82 |
| R. Cushman and J.A. Sanders | |
| Operators Commuting with Coxeter Group Actions | |
| on Polynomials | 107 |
| Charles F. Dunkl | |
| The Möbius Function of Subword Order | 118 |
| Anders Björner | |
| Keys & Standard Bases | 125 |
| Alain Lascoux and Marcel-Paul Schützenberger | |
| Variations on Differential Posets | 145 |
| Richard P. Stanley | |
| Idempotents for the Free Lie Algebra and q -Enumeration | 166 |
| F. Bergeron, N. Bergeron & A.M. Garsia | |
| Tableaux in the Representation Theory | |
| of the Classical Lie Groups..... | 191 |
| Sheila Sundaram | |
| S -Functions and Characters of | |
| Lie Algebras and Superalgebras | 226 |
| Ronald C. King | |
| The Ubiquitous Young Tableau..... | 262 |
| Bruce E. Sagan | |