

Contents

Preface	ix
AMS special session on singularities in algebraic and analytic geometry San Antonio, Texas	xi
Factoring the Jacobian SHREERAM S. ABHYANKAR AND ABDALLAH ASSI	1
Weak normalization and weak subintegral closure MARIE A. VITULLI	11
Integral dependence and weak subintegrality LESLIE G. ROBERTS	23
Singularities and direct-sum decompositions ROGER WIEGAND	29
Valuations in algebra and geometry S. DALE CUTKOSKY	45
Simultaneous resolution of equisingular quasi-ordinary singularities CHUNSHENG BAN AND LEE J. MCÉWAN	65
Single-step combinatorial resolution via coherent sheaves of ideals CAROLINE GRANT MELLES AND PIERRE MILMAN	77
Resolution graphs of some surface singularities, I. (Cyclic coverings) ANDRÁS NÉMETHI	89
Resolution graphs of some surface singularities, II. (Generalized Iomdin series) ANDRÁS NÉMETHI AND ÁGNES SZILÁRD	129
Inequalities for spectral distributions of curve singularities LEE J. MCÉWAN	165
Isolated singularities with large Hochschild homology RUTH I. MICHLER	171
Milnor classes via polar varieties JEAN-PAUL BRASSELET	181