

Contents

Preface	xi
Isomorphisms between infinite matrix rings: A survey GENE ABRAMS AND JUAN JACOBO SIMÓN	1
The double infinite chain condition and generalized deviations of posets and modules TOMA ALBU AND MARK L. TEPLY	13
Minors of some matrices associated with a tree R. B. BAPAT AND DEVADATTA M. KULKARNI	45
On quasi-Baer rings GARY F. BIRKENMEIER, JIN YONG KIM, AND JAE KEOL PARK	67
Functional identities: A survey MATEJ BREŠAR	93
The Grothendieck group and the extensional structure of Noetherian module categories GARY BROOKFIELD	111
Some non-classical finiteness conditions of modules JOHN DAUNS AND YIQIANG ZHOU	133
Free modules obtained by means of infinite direct products GABRIELLA D'ESTE	161
Gorenstein injective, projective, and flat dimensions over Cohen-Macaulay rings EDGAR E. ENOCHS AND OVERTOUN M. G. JENDA	175
Projective modules over semilocal rings ALBERTO FACCHINI AND DOLORS HERBERA	181
Determinantal inequalities: Ancient history and recent advances SHAUN M. FALLAT AND CHARLES R. JOHNSON	199
Ring extensions and duality KENT R. FULLER	213
Some properties of tensor-idempotent rings JOSÉ LUIS GARCÍA AND LEANDRO MARÍN	223

The graded version of Goldie's theorem K. R. GOODEARL AND J. T. STAFFORD	237
On Artinian and Noetherian projective lattice geometries M. GREFERATH	241
The phantom menace in representation theory BIRGE HUISGEN-ZIMMERMANN	247
Separability and Hopf algebras LARS KADISON AND A. A. STOLIN	279
Quadratic residue codes over the integers modulo q^m PRAMOD KANWAR	299
Characterizations of right perfect rings by \oplus -supplemented modules DERYA KESKIN	313
The adjacency matrix of a directed graph over the Grassmann algebra PÉTER KÖRTESE AND JENŐ SZIGETI	319
On Artinian modules over hyperfinite groups L. A. KURDACHENKO AND I. YA. SUBBOTIN	323
Principal one-sided ideals in Ore polynomial rings T. Y. LAM AND ANDRÉ LEROY	333
Modules over hereditary Noetherian prime rings (Survey) LAWRENCE S. LEVY	353
Prime elements of birational extensions of a Noetherian UFD AIHUA LI	371
On the splitting of the dual Goldie torsion theory CHRISTIAN LOMP	377
The Soules approach to the inverse eigenvalue problem for nonnegative symmetric matrices of order $n \leq 5$ J. J. McDONALD AND M. NEUMANN	387
Harmonic analysis on finite rings and applications CARLOS JULIO MORENO	409
A lattice invariant for modules, II BARBARA L. OSOFSKY	431
Modules having $*$ -radical A. ÇIĞDEM ÖZCAN	439
The "generalized class group" of a left Noetherian ring CHRISTOPHER J. PAPPACENA	451
Indecomposable decompositions of \aleph - Σ -CS-modules JOSÉ L. GÓMEZ PARDO AND PEDRO A. GUIL ASENSIO	467
The multiplicative group of a division algebra of degree 5 and Wedderburn's factorization theorem LOUIS H. ROWEN AND YOAV SEGEV	475

Modules which are self-injective relative to closed submodules CATARINA SANTA-CLARA AND PATRICK F. SMITH	487
On r -fold complete weight enumerators of r linear codes IRFAN SIAP AND DIJEN K. RAY-CHAUDHURI	501
Levels of quotient rings of rings of continuous functions AJIT IQBAL SINGH AND MARY ANNE SWARDSON	515
Commutative domains whose finitely generated projective modules have an injectivity property PATRICK F. SMITH	529
Decompositions of modules and comodules ROBERT WISBAUER	547
Density for polyform modules JULIUS M. ZELMANOWITZ	563