

Contents

Preface	iii
Contributors	ix
Group Rings $R[G]$ with 4-Generated Ideals When R Is an Artinian Principal Ideal Ring <i>Souad Ameziane Hassani and Salah-Eddine Kabbaj</i>	1
Quotients of Unit Groups of Commutative Rings <i>Daniel D. Anderson and Bernadette Mullins</i>	15
Some Remarks on G -Noetherian Rings <i>Daniel D. Anderson and Dong Je Kwak</i>	27
Some Remarks on the Ring $R^\#$ <i>David F. Anderson and Driss Nour El Abidine</i>	33
Factorization in $K[S]$ <i>David F. Anderson and Carla Scherpenisse</i>	45
Pseudo-Valuation Rings <i>Ayman Badawi, David F. Anderson, and David Dobbs</i>	57
Some Factorization Properties of $A + XB[X]$ Domains <i>Valentina Barucci, Lahoucine Izelgue, and Salah-Eddine Kabbaj</i>	69
On Spectral Binary Relation <i>Karim Belaïd, Bahri Cherif, and Othman Echi</i>	79
Puiseux's Theorem for Generalized Power Series Field <i>Ali Benhissi</i>	89
The First Braided Homology Group <i>F. Ben Messouda and Aziz Haddi</i>	97
Ring Isomorphisms of Jordan–Banach Algebras <i>Mohamed Benslimane and Nadia Boudi</i>	105
Nonfinite Heights <i>Ezzeddine Bouacida, Othman Echi, and Ezzeddine Salhi</i>	113
On Weakly Semi-Steinitz Rings <i>Abdelmalek Bouanane and Farid Kourki</i>	131
The Dimension of Tensor Products of AF-Rings <i>Samir Bouchiba, Florida Girolami, and Salah-Eddine Kabbaj</i>	141

Extending Valuation Rings to $K(x, \sigma)$ <i>Hans Brungs and Martin Schröder</i>	155
The Special Trace Property <i>Paul-Jean Cahen and Thomas Lucas</i>	161
Krull and Valuative Dimension of the Serre Conjecture Ring $R\langle n \rangle$ <i>Paul-Jean Cahen, Zahra El Khayyari, and Salah-Eddine Kabbaj</i>	173
Skolem Properties for Several Indeterminates <i>Jean-Luc Chabert</i>	181
Commutativity of Normed Algebras E Satisfying $Ex^2 = Ex$ for every $x \in E$ <i>Ould-Hamou Cheikh and M. Oudadess</i>	191
Mixed Grading on Polynomial Rings <i>Kristina Crona</i>	197
Canonical Module and One-Dimensional Analytically Irreducible Arf Domains <i>Marco D'Anna</i>	215
Filtrations, Prüferian Closure Relative to a Module <i>Henri Dichi</i>	227
On Minimal Generating Sets of Modules Over a Special Principal Ideal Ring <i>David Dobbs</i>	241
The Expected Weighted Dimension of a Sum of Vector Spaces <i>David Dobbs</i>	251
n -Coherent Rings and Modules <i>David Dobbs, Salah-Eddine Kabbaj, and Najib Mahdou</i>	269
On Braided Homology <i>Latifa El Khamlichi and Aziz Haddi</i>	283
FP-Injective Quotient Rings and Elementary Divisor Rings <i>Alberto Facchini and Carl Faith</i>	293
On a Class of Domains Having Prüfer Integral Closure: The FQR -Domains <i>Marco Fontana and Nicolae Popescu</i>	303
A Class of Prüfer Domains with Nice Divisorial Ideals <i>Stefania Gabelli</i>	313
Bases of Integer-Valued Polynomials <i>Gilbert Gerboud</i>	319
Gaussian Polynomials <i>Sarah Glaz and Wolmer Vasconcelos</i>	325
The Picard Group of a Certain Pullback Domain: A Noncommutative Approach <i>Robert Guralnick and Roger Wiegand</i>	339
Duals of Ideals in Polynomial Rings <i>Evan Houston, Salah-Eddine Kabbaj, Thomas Lucas, and Abdeslam Mimouni</i>	349

The Dual of the Socle-Fine Notion and Its Applications <i>Abdelouahab Idelhadj and El Amin Kaidi</i>	359
On the Socle-Fine Notion and Modules of Finite Length <i>Amin Kaidi, Dolores Martin Barquero, and Candido Martin Gonzalez</i>	369
On the Class Group of a Pullback <i>Mohammed Khalis and Driss Nour El Abidine</i>	377
Semigroups and Semigroup Rings <i>Ryuki Matsuda</i>	387
t -Closed Pairs <i>Martine Picavet L'Hermitte</i>	401
About Composite Rings <i>Gabriel Picavet</i>	417
On the Picard Group of the Integer Group Ring of the Cyclic p -Group and of Rings Close to It <i>Alexander Stolin</i>	443
On the Krull Dimension of $\text{Int}(D)$ When D is a Pullback <i>Francesca Tartarone</i>	457