

Contents

1. EMBEDDING THEOREMS:	
§1: Artinian rings	1
§2: Regular and π -regular rings	4
§3: Weakly regular, right regular, and fully idempotent rings	7
§4: Simple, prime, semisimple, and semiprime rings	9
2. RADICAL THEORY:	
§1: Definitions, notation, and preliminary results	14
§2: Nilpotent radical classes	15
§3: T-nilpotent rings	18
§4: Subrings of Jacobson and Brown-McCoy semisimple rings	21
§5: Unequivocal rings	22
3. FISSIBLE RINGS:	
§1: Definition, Artinian and MHR-rings	25
§2: Strongly fissible, p-fissible, and strongly p-fissible rings	27
§3: Artinian, regular, and biregular rings	31
4. PROPERTIES SATISFIED BY SUBRINGS, IDEALS, OR QUOTIENT RINGS:	
§1: Finite characteristic, no-zero-divisors, and cyclic rings	37
§2: Rings isomorphic to their unbounded subrings, ideals, or homomorphic images	45
§3: Rings satisfying ascending chain conditions	54
§4: Nil and nilpotent rings	57
§5: Rings isomorphic to their proper quotient rings	62

5. SUBGROUPS THAT ARE IDEALS IN EVERY RING:

§1: Subgroups that are 2-sided ideals in every ring	65
§2: Ideal subgroups of p-groups	69
§3: Rings R whose only right ideals are fully invariant subgroups of R^+ , or are ideal subgroups of R^+	75

6. MISCELLANEOUS RESULTS:

§1: Noetherian rings with free additive groups of large cardinality	77
§2: Rings with totally ordered lattice of ideals	79
§3: Rings whose additive endomorphisms are multiplicative	90
§4: Status of questions asked in volume I	93
References	94
Index	99