

# Contents

1. Preliminaries:	
§1: Definitions and structure theorems	1
§2: Mult G	4
§3: Type	5
§4: Examples	6
2. Nil and Quasi-Nil Groups:	
§1: Nil groups	10
§2: Quasi-nil groups	16
3. Additive groups of Nilpotent and Generalized Nilpotent Rings:	
§1: The nilstufe of a group	25
§2: Nilpotence without boundedness conditions, and generalized nilpotence	31
4. Other Ring Properties:	
§1: Semisimple, prime, semiprime, simple ring, division ring, field, radical ring	36
§2: Principal ideal and Noetherian rings	43
§3: Descending chain conditions for ideals	50
§4: Subdirectly irreducible rings	61
§5: Local rings	65
§6: Rings with trivial left annihilator, subrings of algebraic number fields, and semisimple rings continued	68
§7. E-rings and T-rings	76
5. Torsion Free Rings:	
§1: Notation, definitions, and preliminary results	83
§2: The Beaumont-Pierce decomposition theorem	90
§3: Torsion free rings with semisimple algebra type	98
§4: Applications	103