

CONTENTS

PREFACE	ix
CHAPTER 1. RING-THEORETIC PRELIMINARIES.	1
1. Some Formal Results	2
2. Primitive Rings with Minimal One-Sided Ideals.	10
3. Generalized Polynomial Identities	20
4. Central Polynomials	35
5. The Amitsur-Levitzki Theorem	41
6. Centralizers	43
Bibliography	52
CHAPTER 2. REGULARITY CONDITIONS ON SKEW AND SYMMETRIC ELEMENTS.	55
1. Osborn's Theorem	56
2. Positive-definiteness Theorems	73
3. A Skew Version of Osborn's Theorem	80
4. Regular Skew Elements.	88
5. Some Theorems of Montgomery	91
Bibliography	109
CHAPTER 3. COMMUTATIVITY THEOREMS.	110
1. Division Rings	111
2. More on Division Rings.	117

3. Rings with Periodic Skew or Symmetric Elements.	126
4. Generalizations and a Theorem of Lee.	141
Bibliography	152
CHAPTER 4. MAPPING THEOREMS	154
1. Some Results of Lynne Small.	154
2. Theorems of Martindale.	164
Bibliography	183
CHAPTER 5. POLYNOMIAL IDENTITIES.	184
Bibliography	197
CHAPTER 6. POTPOURRI.	198
1. A Unitary Version of the Brauer-Cartan-Hua Theorem.	198
2. *-Radicality in Division Rings	205
3. K-invariant Subrings	214
4. Another Dichotomy Theorem	223
5. Relations Between R and \bar{S} or \bar{K}	229
6. Finite Generation	239
Bibliography	246