

TABLE OF CONTENTS

Introduction	iii
Notations and conventions	xiv

I. JORDAN PAIRS

§ 1. Definitions and relations with Jordan algebras and triple systems	1
§ 2. Identities and representations	12
§ 3. The quasi-inverse	22
§ 4. Radicals	30
§ 5. Peirce decomposition	42
Notes	55

II. ALTERNATIVE PAIRS

§ 6. Basic properties and relations with alternative algebras	57
§ 7. The Jordan pair associated with an alternative pair	68
§ 8. Imbedding into Jordan pairs	74
§ 9. Peirce decomposition	92
Notes	101

III. ALTERNATIVE AND JORDAN PAIRS WITH CHAIN CONDITIONS

§10. Inner ideals and chain conditions	103
§11. Classification of alternative pairs	115
§12. Classification of Jordan pairs	131
Notes	139

IV. FINITE-DIMENSIONAL JORDAN PAIRS

§13. Universal enveloping algebras	141
§14. Solvability and nilpotence	150
§15. Cartan subpairs	160
§16. The generic minimum polynomial	176
§17. Simple Jordan pairs	191
§18. Appendix: Polynomial and rational functions	202
Notes	212
Bibliography	215