

Contents

	<i>Preface</i>	<i>page ix</i>
1	Jordan and Lie theory	1
	1.1 Jordan algebras	1
	1.2 Jordan triple systems	13
	1.3 Lie algebras and the Tits–Kantor–Koecher construction	39
	1.4 Matrix Lie groups	50
	Notes	61
2	Jordan structures in geometry	62
	2.1 Banach manifolds and Lie groups	62
	2.2 Riemannian manifolds	82
	2.3 Jordan algebras and Riemannian symmetric spaces	101
	2.4 Jordan triples and Riemannian symmetric spaces	121
	2.5 Jordan triples and symmetric domains	144
	Notes	169
3	Jordan structures in analysis	171
	3.1 Banach spaces	171
	3.2 Holomorphic mappings	183
	3.3 Contractive projections on JB*-triples	202
	3.4 Isometries between JB-triples	217
	3.5 Hilbert spaces	227
	Notes	248
	<i>Bibliography</i>	251
	<i>Index</i>	257