Contents

A foreword to the English edition	X
A couple of words about groups	1
Introduction	3
Chapter 1. Chain. The chain condition for stable groups	11
1.1. Stable groups; examples	11
1.2. The order property	13
1.3. Chain conditions on subgroups	14
1.4. Connected components	16
1.5. Omega-categorical stable groups	18
1.6. Historic and bibliographic notes	23
Chapter 2. Structure. Model-theoretic analysis of groups of finite	
Morley rank	25
2.1. Generics	25
2.2. Indecomposable sets; Zil'ber's Theorem	27
2.3. Lascar analysis of a group of finite Morley rank	29
2.4. Borovik groups and groups of finite Morley rank	32
2.5. Binding groups	35
2.6. Hrushovski analysis	4 0
2.7. Historic and bibliographic notes	43
Chapter 3. Fields. Algebraic properties of groups of finite Morley rank	45
3.1. Fields of finite Morley rank	45
3.2. Action of an abelian group on an abelian group	48
3.3. Minimal groups	50
3.4. Commutators	53
3.5. Solvable groups	56
3.6. Semisimple groups	58
3.7. Action of a group on a strongly minimal set	60
3.8. Bad groups	63
3.9. Historic and bibliographic notes	68
Chapter 4. Geometry. Introduction to algebraic groups	69
4.1. Constructible groups	69
4.2. The Zariski closed sets	71
4.3. Morphisms and constructible functions	75
4.4. Varieties	78
4.5. Algebraic groups; Weil-Hrushovski theorem	81

x CONTENTS

4.6.	Linear groups; Rosenlicht's theorem	86
4.7.	The Borel-Tits theorem	88
4.8.	Historic and bibliographic notes	91
Chapter	5. Generics. The reconstruction of a stable group from its	
	generic fragments	93
5.1.	Generic types	93
5.2.	The stratified order	96
5.3.	The superstable case	99
5.4.	Infinitely definable groups	100
5.5.	Unidimensional theories	103
5.6.	Groups given generically	104
5.7.	Historic and bibliographic notes	105
Chapter	6. Rank. Superstable groups	107
	Lascar inequalities	107
	Berline-Lascar Decomposition	108
	Superstable fields	112
6.4.	Historic and bibliographic notes	113
Chapter	7. Weight. The last trick for shining in the salons	115
7.1.	Groups and fields with regular generic types	115
	Hrushovski analysis	116
7.3.	Internal groups of small weight	120
	Historic and bibliographic notes	121
Bibliogra	aphy	123
Index		125
Postscrip	ot: Thirteen years later	127