

# Contents

	Page
Preface	vii
1. Introduction to topological groups	1
2. Subgroups and quotient groups of $\mathbb{R}^n$	27
3. Uniform spaces and dual groups	41
4. Introduction to the Pontryagin-van Kampen duality theorem	53
5. Duality for compact and discrete groups	62
6. The duality theorem and the principal structure theorem	71
7. Consequences of the duality theorem	90
8. Locally Euclidean and NSS-groups	104
9. Non-abelian groups	116
References	119
Index of terms	121
Index of Exercises, propositions and theorems	127