

TABLE OF CONTENTS

PART 1. ABELIAN p -GROUPS	9
§1. DEFINITIONS	11
§2. ORTHOGONALITY	17
§3. FREENESS AND PROJECTIVITY	20
§4. BASIC SUBSPACES	25
§5. INJECTIVITY	27
§6. AUGMENTATION	33
§7. SUBFREE VALUED VECTOR SPACES	36
§8. ADDITIONAL RESULTS ON SUBFREE VALUED VECTOR SPACES	40
§9. PRELIMINARIES ON THE SOCLES	44
§10. p -GROUPS OF LENGTHS $\leq \omega$	48
§11. p -GROUPS OF THE COUNTABLE LENGTHS	51
§12. SOCLES OF TOTALLY PROJECTIVE p -GROUPS	56
§13. CLASSES OF p -GROUPS CLASSIFIED BY SOCLES	61
REFERENCES	66

PART 2. MIXED ABELIAN GROUPS	69
§1. BASIC DEFINITIONS	72
§2. ADDITIVE CATEGORIES	80
§3. THE CATEGORY WARF	84
§4. THE CATEGORY WALK	86
§5. SUBGROUPS OF SPECIAL TYPES	89
§6. RESULTS ON TOTALLY PROJECTIVE p -GROUPS	95
§7. THE METHOD OF LOCALIZATION	100
§8. SIMPLY PRESENTED GROUPS	103
§9. DECOMPOSITION BASES	110
§10. WARFIELD GROUPS	115
§11. THE PROJECTIVE PROPERTY OF WARFIELD GROUPS	119
§12. CLASSIFICATION OF LOCAL WARFIELD GROUPS	122
§13. BALANCED PROJECTIVES	128
§14. DIRECT SUMS OF RANK ONE GROUPS	135
REFERENCES	137