Contents

1 SETS, MAPPINGS, RELATIONS	pag
1.1 Sets	1
1.2 Mappings	7
1.3 Equivalence Relations	12
2 SEMIGROUPS, GROUPS	
2.1 Semigroups	16
2.2 Introduction to Groups	23
2.3 Subgroups	30
2.4 Homomorphisms	39
3 DIRECT PRODUCTS, ABELIAN GROUPS	
3.1 Direct Products	52
3.2 Abelian Groups	55
4 SYMMETRY, GEOMETRY	
4.1 Permutation Groups	67
4.2 Orbits, Stabilisers	76
4.3 Symmetry Groups	77
5 FURTHER GROUP THEORY	
5.1 p-Groups, Sylow Subgroups	92
5.2 Soluble Groups	97
INDEX	102
LITULA	102