

Contents

Preface	<i>page ix</i>
I Semisimple modules	
1 Simple modules	1
2 Simple algebras	7
3 Group algebras	12
II Projective modules	
4 Indecomposable modules	21
5 Free modules	28
6 Duality	38
7 Tensor products	45
III Modules and subgroups	
8 Induced modules	54
9 Vertices and sources	65
10 Trivial intersections	70
11 Green correspondence	79
12 Maps	84
IV Blocks	
13 Defect groups	92
14 Brauer correspondence	101
15 Canonical module	105
16 Subpairs	112

V Cyclic blocks	
17 Brauer trees	118
18 Nilpotent blocks	128
19 Local case	134
20 Projective covers	143
21 Simple modules	150
22 Brauer graph	159
23 Trees	166
24 Multiplicity	169
A guide to further reading	174
Bibliography	176
Index	177