

Contents

Part I

Graphs and Groups

D.M. Goldschmidt

1. Introduction	9
2. Definitions, notations, and preliminary results	10
3. G-graphs	13
4. The universal realization of a graph of groups	21
5. The fundamental group	30
6. Generators and relations for $\pi(V, Y)$	33
7. The fundamental group-revisited, normal forms	37
8. Exercises and further results	52

Part II

Weak (B,N)-pairs of rank 2

A.L. Delgado and B. Stellmacher

1. Introduction and notation	59
2. Amalgams of rank n	61
3. Amalgams of rank 2	71
4. Weak (B,N)-pairs of rank 2	94
5. Properties of Chevalley groups of rank 1	104
6. Interlude: Notations and preliminary results	118
7. The case $[Z_\alpha, Z_\alpha] \neq 1$	126
8. The case $[Z_\alpha, Z_\alpha] = 1$, Part I	132
9. The case $[Z_\alpha, Z_\alpha] = 1$, Part II	141
10. The case $b \leq 2$ and $[Z_\alpha, Z_\alpha] \neq 1$	153
11. The case $b = 1$ and $[Z_\alpha, Z_\alpha] = 1$	167
12. The case $[V_\alpha, V_\beta \cap Q_\alpha] \neq 1$	178

13.	The case $[V_\alpha, V_\beta \cap Q_\alpha] = 1$	191
14.	The exchange condition	208
15.	Proof of Theorem A	225
16.	Problems, exercises, and generalizations	232