

Contents

Chapter 1. Introduction	1
Chapter 2. Preliminaries	7
Chapter 3. Transitive and antitrag transitive linear groups	11
Chapter 4. Subgroups of classical groups transitive on subspaces	15
Chapter 5. Proof of Theorem 1.1: Linear groups	23
Chapter 6. Proof of Theorem 1.1: Unitary groups	27
Chapter 7. Proof of Theorem 1.1: Orthogonal groups in odd dimension	31
Chapter 8. Proof of Theorem 1.1: Orthogonal groups of minus type	35
Chapter 9. Proof of Theorem 1.1: Some special actions of symplectic and orthogonal groups	37
Chapter 10. Proof of Theorem 1.1: Remaining symplectic cases	45
Chapter 11. Proof of Theorem 1.1: Orthogonal groups of plus type	51
Chapter 12. Proof of Theorem 1.1: Exceptional groups of Lie type	55
Chapter 13. Proof of Theorem 1.1: Alternating groups	57
Chapter 14. Proof of Theorem 1.1: Sporadic groups	61
Chapter 15. Proof of Theorem 1.4 and Corollary 1.3	65
Chapter 16. The tables in Theorem 1.1	69
References	73