

FINITE SIMPLE GROUPS

edited by

G. Higman and M. B. Powell
Mathematical Institute, Oxford

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A conference was held in Oxford in September 1969 in response to the renewed interest shown over the last 10–15 years in the study of group theory. It was designed for young research workers in the field of simple finite groups and mathematicians engaged in allied fields wishing to increase their knowledge of the methods and results of modern finite group theory.



Proceedings of an Instructional Conference
Organized by the London Mathematical
Society

(A NATO Advanced Study Institute)

Major contributors to this volume are *C. W. Curtis*, *E. C. Dade*, *G. Glauberman* and *D. Gorenstein*. *G. Glauberman* deals with the interrelationship between global and local properties of groups; in particular the control of fusion and transfer. *C. W. Curtis* approaches simple groups from the standpoint of the Lie theory. The relevant character theory is introduced by *E. C. Dade* and, as applications, he proves the Brauer–Suzuki theorem and Glauberman's Z^* -theorem. *D. Gorenstein* develops techniques for deriving structure theorems for the centralizer of an involution in a finite simple group.

J. H. Conway and *G. Higman* make shorter contributions. The former discusses various "exceptional" groups (including the first Conway group) and the latter, the problem of constructing a simple group starting from a character table.

The volume also records seminars given by *M. Herzog* (Finite groups with large cyclic Sylow subgroup) and *H. S. Leonard Jr.* (Finite complex linear groups of small degree).

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