Characters of Finite Coxeter Groups and Iwahori–Hecke Algebras

MEINOLF GECK and GÖTZ PFEIFFER
Characters of Finite Coxeter Groups and Iwahori-Hecke Algebras, Meinolf Geck, GÖtz Pfeiffer, Oxford University Press, 2000, 0198502508, 9780198502500, 446 pages. Finite Coxeter groups and related structures arise naturally in several branches of mathematics such as the theory of Lie algebras and algebraic groups. The corresponding Iwahori-Hecke algebras are then obtained by a certain deformation process which have applications in the representation theory of groups of Lie type and the theory of knots and links. This book develops the theory of conjugacy classes and irreducible character, both for finite Coxeter groups and the associated Iwahori-Hecke algebras. Topics covered range from classical results to more recent developments and are clear and concise. This is the first book to develop these subjects both from a theoretical and an algorithmic point of view in a systematic way, covering all types of finite Coxeter groups..

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Finite Group Theory, M. Aschbacher, Jun 26, 2000, Mathematics, 304 pages. The book provides the basic foundations for the local theory of finite groups, the theory of classical linear groups, and the theory of buildings and BN-pairs..

Proceedings of the Rutgers Group Theory Year 1983 - 1984, Michael Aschbacher, 1984, Mathematics, 415 pages. With the classification of finite groups an era of research in that subject ended. In this symposium volume twenty-nine key figures in the classification programme analyse the ....

Symmetric and G-algebras with applications to group representations, Gregory Karpilovsky, 1990, 368 pages.

Probabilistic Group Theory, Combinatorics, and Computing Lectures from the Fifth de Brö"enn Workshop, Alla Detinko, Dane Flannery, Eamonn A. O'Brien, Feb 28, 2013, Mathematics, 123 pages. Probabilistic Group Theory, Combinatorics and Computing is based on lecture courses held at the Fifth de Brö"enn Workshop in Galway, Ireland in April 2011. Each course discusses ....

Finite groups of Lie type conjugacy classes and complex characters, Roger William Carter, Aug 24, 1993, Mathematics, 544 pages. The finite groups of Lie type are of basic importance in the theory of groups. A classic in its field, this book presents the theories of finite groups of Lie type in a clear ....

The Isomorphism Problem in Coxeter Groups, C. Patrick Bahls, Jan 1, 2005, Mathematics, 176 pages. The book is the first to give a comprehensive overview of the techniques and tools currently being used in the study of combinatorial problems in Coxeter groups. It is self ....


Character Theory for the Odd Order Theorem, T. Peterfalvi, Feb 28, 2000, Mathematics, 154 pages. This is a systematic mathematical study of differential (and more general self-adjoint) operators..

The Structure of Groups of Prime Power Order, C. Charles Richard Leedham-Green, Susan R. McKay, 2002, Mathematics, 334 pages. The coclass project (1980-1994) provided a new and powerful way to classify finite p-groups. This monograph gives a coherent account of the thinking out of which developed the ....

Geometric Analysis on Symmetric Spaces, Sigurdur Helgason, Jan 1, 1994, Mathematics, 611 pages. This book gives the first systematic exposition of geometric analysis on Riemannian symmetric spaces and its relationship to the representation theory of semisimple Lie groups ....

A Course in Group Theory, J. F. Humphreys, 1996, Business & Economics, 279 pages. This self-contained introduction to the theory of groups covers the many topics likely to be encountered in undergraduate courses. Focusing on the fundamental classification ....
