1. **Record Nr.**   UNINA9910733713303321

Titolo   Group Theory and Computation / / edited by N.S. Narasimha Sastry, Manoj Kumar Yadav

Pubbl/distr/stampa   Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2018

ISBN   981-13-2047-0

Edizione   [1st ed. 2018.]

Descrizione fisica   1 online resource (213 pages)

Collana   Indian Statistical Institute Series, , 2523-3122

Disciplina   512.2

Soggetti   Group theory
Mathematics - Data processing
Group Theory and Generalizations
Computational Mathematics and Numerical Analysis

Lingua di pubblicazione   Inglese

Formato   Materiale a stampa

Livello bibliografico   Monografia

Nota di contenuto   Chapter 1. On Right Conjugacy Closed Loops Of Twice Prime Order -- Chapter 2. Compatible Actions And Non-Abelian Tensor Products -- Chapter 3. On Zeros Of Characters Of Finite Groups -- Chapter 4. Properties Of Finite And Periodic Groups Determined By Their Elements Orders: A Survey -- Chapter 5. Calculating Subgroups With GAP -- Chapter 6. The future of Majorana theory -- Chapter 7. Finite Groups With Abelian Automorphism Groups: A Survey -- Chapter 8. Camina Groups, Camina Pairs, And Generalizations -- Chapter 9. The Upper Central Series Of The Unit Groups Of Integral Group Rings: A Survey -- Chapter 10. Character Tables And Sylow Subgroups Revisited.

Sommario/riassunto   This book is a blend of recent developments in theoretical and computational aspects of group theory. It presents the state-of-the-art research topics in different aspects of group theory, namely, character theory, representation theory, integral group rings, the Monster simple group, computational algorithms and methods on finite groups, finite loops, periodic groups, Camina groups and generalizations, automorphisms and non-abelian tensor product of groups. Presenting a collection of invited articles by some of the leading and highly active researchers in the theory of finite groups and their representations and the Monster group, with a focus on computational aspects, this book is

of particular interest to researchers in the area of group theory and related fields of mathematics.