Record Nr. UNINA9910458061703321 Autore Kurdachenko L Titolo Groups with prescribed quotient groups and associated module theory [[electronic resource] /] / L. Kurdachenko, J. Otal, I. Subbotin River Edge, NJ.: World Scientific, c2002 Pubbl/distr/stampa **ISBN** 981-277-829-2 Descrizione fisica 1 online resource (244 p.) Collana Series in algebra;; v. 8 Altri autori (Persone) OtalJean-Pierre SubbotinIgor Ya. <1950-> Disciplina 512/.2 Soggetti Group theory Modules (Algebra) Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references (p. 203-219) and index. Nota di contenuto Contents : Preface : Notation ; I Simple Modules ; 1. On Annihilators of Modules ; 2. The Structure of Simple Modules over Abelian Groups ; 3. The Structure of Simple Modules over Some Generalizations of Abelian Groups 4. Complements of Simple Submodules ; II Just Infinite Modules 5. Some Results on Modules over Dedekind Domains 6. Just Infinite Modules over FC-Hypercentral Groups : 7. Just Infinite Modules over Groups of Finite 0-Rank ; 8. Just Infinite Modules over Polycyclic-by-Finite Groups 9. Co-Layer-Finite Modules over Dedekind Domains III Just Non-X-Groups 10. The Fitting Subgroup of Some Just Non-X-Groups ; 11. Just Non-Abelain Groups ; 12. Just Non-Hypercentral Groups and Just Non-Hypercentral Modules ; 13. Groups with Many Nilpotent Factor-Groups ; 14. Groups with Proper Periodic Factor-Groups 15. Just Non-(Polycyclic-by-Finite) Groups 16. Just Non-CC-Groups and Related Classes ; 17. Groups Whose Proper Factor-Groups Have a Transitive Normality Sommario/riassunto

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The influence of different gomomorphic images on the structure of a group is one of the most important and natural problems of group theory. The problem of describing a group with all its gomomorphic images known, i.e. reconstructing the whole thing using its reflections, seems especially natural and promising. This theme has a history that is almost a half-century long. The authors of this book present well-established results as well as newer, contemporary achievements in this area from the common integral point of view. This view is based on the implementation of module theory for solving