

1. Record Nr.	UNINA9910455500303321
Titolo	Aspects of infinite groups [[electronic resource] ] : a festschrift in honor of Anthony Gaglione // editors Benjamin Fine, Gerhard Rosenberger, Dennis Spellman
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2008
ISBN	981-279-341-0
Descrizione fisica	1 online resource (253 p.)
Collana	Algebra and discrete mathematics, , 1793-5873 ; ; v. 1
Altri autori (Persone)	GaglioneAnthony M FineBenjamin <1948-> RosenbergerGerhard SpellmanDennis <1945->
Disciplina	512.2
Soggetti	Infinite groups Representations of groups 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.
Nota di contenuto	6. Formal Power Series Rings and the Magnus Representation 7. Relations on the Variables; 8. References; On the Derived Subgroups of the Free Nilpotent Groups of Finite Rank R. D. Blyth, P. Moravec and R. F. Morse; 1. Introduction; 2. The Derived Subgroup of a Free Nilpotent Group; 3. Application; Acknowledgements; References; A Recurrence Relation for the Number of Free Subgroups in Free Products of Cyclic Groups T. Camps, M. Darfer and G. Rosenberger; 1. Introduction; 2. Preliminaries; 3. The Main Results; 4. Examples; References The Baumslag-Solitar Groups: A Solution for the Isomorphism Problem A. E. Clement 1. Introduction; 2. Notation; 3. The proof of Theorem 1.1; Acknowledgments; References; Unification Theorems in Algebraic Geometry E. Daniyarova, A. Myasnikov and V. Remeslennikov; CONTENTS; 1. Introduction; 2. Preliminaries; 2.1. Languages and structures; 2.2. Theories; 3. Algebras; 3.1. Congruences; 3.2. Quasivarieties; 3.3. Universal closures; 3.4. A-Algebras; 4. Types, Zariski topology, and coordinate algebras; 4.1. Quantifier-free types and Zariski topology; 4.2. Coordinate algebras and complete types

4.3. Equationally Noetherian algebras; 5. Limit algebras; 5.1. Direct systems of formulas and limit algebras; 5.2. Limit A-algebras; 6. Unification Theorems; References; Reflections on Commutative Transitivity B. Fine and G. Rosenberger; 1. Introduction; 2. Commutative Transitivity and Commutative Transitive Groups; 3. Commutative Transitivity, CSA and Universally Free Groups; 4. The Commutative Transitive Kernel; 5. RG Groups and a Classification of One-Relator CT Groups; 6. Commutative Transitivity and Discriminating Groups; 7. An Extension of Commutative Transitivity; 8. References Groups Universally Equivalent to Free Burnside Groups of Prime Exponent and a Question of Philip Hall A. Gaglione, S. Lipschutz and D. Spellman

---

Sommario/riassunto

This book is a festschrift in honor of Professor Anthony Gaglione's sixtieth birthday. This volume presents an excellent mix of research and expository articles on various aspects of infinite group theory. The papers give a broad overview of present research in infinite group theory in general, and combinatorial group theory and non-Abelian group-based cryptography in particular. They also pinpoint the interactions between combinatorial group theory and mathematical logic, especially model theory.

---