

Contents

| | |
|---|-----------|
| Introduction | v |
| <i>Paul Baginski, Benjamin Fine, and Anthony Gaglione</i> | |
| 1. Groups With the Weak Minimal Condition on Non-Permutable Subgroups | 1 |
| <i>Laxmi K. Chataut and Martyn R. Dixon</i> | |
| 2. A Survey: Shamir Threshold Scheme and Its Enhancements | 19 |
| <i>Chi Sing Chum, Benjamin Fine, and Xiaowen Zhang</i> | |
| 3. The Zappa-Szep Product of Left-Orderable Groups | 43 |
| <i>Fabienne Chouraqui</i> | |
| 4. Totally Disconnected Groups From Baumslag-Solitar Groups | 51 |
| <i>Murray Elder and George Willis</i> | |
| 5. Elementary and Universal Theories of Nonabelian Commutative Transitive and CSA Groups | 81 |
| <i>B. Fine, A.M. Gaglione, and D. Spellman</i> | |

| | | |
|------------|--|------------|
| 6. | Commutative Transitivity and the CSA Property | 95 |
| | <i>Benjamin Fine, Anthony Gaglione, Gerhard Rosenberger, and Dennis Spellman</i> | |
| 7. | The Universal Theory of Free Burnside Groups of Large Prime Exponent | 119 |
| | <i>Anthony M. Gaglione, Seymour Lipschutz, and Dennis Spellman</i> | |
| 8. | Primitive Curve Lengths on Pairs of Pants | 141 |
| | <i>Jane Gilman</i> | |
| 9. | Drawing Inferences Under Maximum Entropy From Relational Probabilistic Knowledge Using Group Theory | 157 |
| | <i>Gabriele Kern-Isberner, Marco Wilhelm, and Christoph Beierle</i> | |
| 10. | On Some Infinite-Dimensional Linear Groups and the Structure of Related Modules | 185 |
| | <i>L. A. Kurdachenko and I. Ya. Subbotin</i> | |
| 11. | On New Analogs of Some Classical Group Theoretical Results in Lie Rings | 197 |
| | <i>L.A. Kurdachenko, A.A. Pypka and I.Ya. Subbotin</i> | |
| 12. | Log-Space Complexity of the Conjugacy Problem in Wreath Products | 215 |
| | <i>Alexei Myasnikov, Svetla Vassileva, and Armin Weiss</i> | |
| 13. | Group Presentations, Cayley Graphs and Markov Processes | 237 |
| | <i>Peter Olszewski</i> | |