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TECHNIQUES OF SEMIGROUP THEORY

PETER M. HIGGINS

Techniques Of Semigroup Theory

José Burillo



Techniques Of Semigroup Theory:

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Applications Alfred Hobbitzelle Clifford, 1996-05-16 This volume contains survey papers by the invited speakers at the Conference on Semigroup Theory and Its Applications which took place at Tulane University in April 1994 The authors represent the leading areas of research in semigroup theory and its applications both to other areas of mathematics and to areas outside mathematics Included are papers by Gordon Preston surveying Clifford's work on Clifford semigroups and by John Rhodes tracing the influence of Clifford's work on current semigroup theory Notable among the areas of application are the paper by Jean Eric Pin on applications of other areas of mathematics to semigroup theory and the paper by the editors on an application of semigroup theory to theoretical computer science and mathematical logic All workers in semigroup theory will find this volume invaluable **Techniques of Semigroup Theory** Peter M. Higgins, 1992 This book introduces recently developed ideas and techniques in semigroup theory to provide a handy reference guide The trend is from the abstract to the combinatorial with new probabilistic and word problem results of interest to students of computer science and algebra alike

Automata Theory Matthew Simon, 1999 This book covers substantially the central ideas of a one semester course in automata theory It is oriented towards a mathematical perspective that is understandable to non mathematicians Comprehension is greatly aided by many examples especially on the Chomsky Schutzenberger theorem which is not found in most books in this field Special attention is given to semiautomata theory the relationship between semigroups and sequential machines including Green's relations Schutzenberger's maximal subgroup von Neumann inverses wreath products transducers using matrix notation shuffle and Kronecker shuffle products Methods of formal power series the ambiguity index and linear languages are discussed Core material includes finite state automata regular expressions Kleene's theorem Chomsky's hierarchy and transformations of grammars Ambiguous grammars not limited to context free grammars and modal logics are briefly discussed Turing machine variants with many examples pushdown automata and their state transition diagrams and parsers linear bounded automata 2 PDA and Kuroda normal form are also discussed A brief study of Lindenmeyer systems is offered as a comparison to the theory of Chomsky **Computational Techniques in Finite**

Semigroup Theory Wilf A. Wilson, 2018 **semigroup theory and applications** Phillippe Clement, 2020-12-22 This book contains articles on maximal regulatory problems interpolation spaces multiplicative perturbations of generators linear and nonlinear evolution equations integrodifferential equations dual semigroups positive semigroups applications to control theory and boundary value problems **Semigroup Theory - Proceedings Of The Monash Conference On Semigroup Theory In Honor Of G B Preston** T E Hall, Peter R Jones, John C Meakin, 1991-05-21 This conference celebrated the 65th

birthday of Professor G B Preston of Monash University Containing contributions from almost all his mathematical progeny the proceedings is a tribute to his influence on semigroup and Australian mathematics Semigroups: Algebraic Theory And Applications To Formal Languages And Codes Celestina Bonzini,Alessandra Cherubini,C Tibiletti,1993-10-29 The proceedings present some new topics and techniques of semigroup theory Papers by leading experts in this theory are collected Since results on semigroups have naturally been employed in formal languages and codes the focus is also on these directions

Structural Theory of Automata, Semigroups, and Universal Algebra Valery B. Kudryavtsev,Ivo G. Rosenberg,2006-01-18 Several of the contributions to this volume bring forward many mutually beneficial interactions and connections between the three domains of the title Developing them was the main purpose of the NATO ASI summerschool held in Montreal in 2003 Although some connections for example between semigroups and automata were known for a long time developing them and surveying them in one volume is novel and hopefully stimulating for the future Another aspect is the emphasis on the structural theory of automata that studies ways to construct big automata from small ones The volume also has contributions on top current research or surveys in the three domains One contribution even links clones of universal algebra with the computational complexity of computer science Three contributions introduce the reader to research in the former East block *Semigroups And Languages, Proceedings Of The Workshop* Gracinda M S Gomes,Isabel M Araujo,Mario J J Branco,Vitor H Fernandes,2004-07-14 In recent years semigroups and languages have seen huge developments and found their motivation in other fields of mathematics as well as in computer science This book is a collection of original contributions in those fields The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences *Semihypergroup Theory* Bijan Davvaz,2016-06-24 Semihypergroup Theory is the first book devoted to the semihypergroup theory and it includes basic results concerning semigroup theory and algebraic hyperstructures which represent the most general algebraic context in which reality can be modelled Hyperstructures represent a natural extension of classical algebraic structures and they were introduced in 1934 by the French mathematician Marty Since then hundreds of papers have been published on this subject Offers the first book devoted to the semihypergroup theory Presents an introduction to recent progress in the theory of semihypergroups Covers most of the mathematical ideas and techniques required in the study of semihypergroups Employs the notion of fundamental relations to connect semihypergroups to semigroups **Proceedings of the Workshop Semigroups and Languages** Isabel M. Araujo,2004 In recent years semigroups and languages have seen huge developments and found their motivation in other fields of mathematics as well as in computer science This book is a collection of original contributions in those fields The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences

The q-theory of Finite Semigroups John Rhodes, Benjamin Steinberg, 2009-04-05 Discoveries in finite semigroups have influenced several mathematical fields including theoretical computer science tropical algebra via matrix theory with coefficients in semirings and other areas of modern algebra This comprehensive encyclopedic text will provide the reader from the graduate student to the researcher practitioner with a detailed understanding of modern finite semigroup theory focusing in particular on advanced topics on the cutting edge of research Key features 1 Develops q theory a new theory that provides a unifying approach to finite semigroup theory via quantization 2 Contains the only contemporary exposition of the complete theory of the complexity of finite semigroups 3 Introduces spectral theory into finite semigroup theory 4 Develops the theory of profinite semigroups from first principles making connections with spectra of Boolean algebras of regular languages 5 Presents over 70 research problems most new and hundreds of exercises Additional features 1 For newcomers an appendix on elementary finite semigroup theory 2 Extensive bibliography and index The q theory of Finite Semigroups presents important techniques and results many for the first time in book form and thereby updates and modernizes the literature of semigroup theory

Geometric Methods in Group Theory José Burillo, 2005 This volume presents articles by speakers and participants in two AMS special sessions Geometric Group Theory and Geometric Methods in Group Theory held respectively at Northeastern University Boston MA and at Universidad de Sevilla Spain The expository and survey articles in the book cover a wide range of topics making it suitable for researchers and graduate students interested in group theory

Trends in Representation Theory of Algebras and Related Topics Andrzej Skowroński, 2008 This book is concerned with recent trends in the representation theory of algebras and its exciting interaction with geometry topology commutative algebra Lie algebras quantum groups homological algebra invariant theory combinatorics model theory and theoretical physics The collection of articles written by leading researchers in the field is conceived as a sort of handbook providing easy access to the present state of knowledge and stimulating further development The topics under discussion include diagram algebras Brauer algebras cellular algebras quasi hereditary algebras Hall algebras Hecke algebras symplectic reflection algebras Cherednik algebras Kashiwara crystals Fock spaces preprojective algebras cluster algebras rank varieties varieties of algebras and modules moduli of representations of quivers semi invariants of quivers Cohen Macaulay modules singularities coherent sheaves derived categories spectral representation theory Coxeter polynomials Auslander Reiten theory Calabi Yau triangulated categories Poincare duality spaces selfinjective algebras periodic algebras stable module categories Hochschild cohomologies deformations of algebras Galois coverings of algebras tilting theory algebras of small homological dimensions representation types of algebras and model theory This book consists of fifteen self contained expository survey articles and is addressed to researchers and graduate students in algebra as well as a broader mathematical community They contain a large number of open problems and give new perspectives for research in the field

Algorithmic Problems in Groups and Semigroups Jean-Camille Birget, Stuart Margolis, John Meakin, Mark V.

Sapir, 2012-12-06 This volume contains papers which are based primarily on talks given at an international conference on Algorithmic Problems in Groups and Semigroups held at the University of Nebraska Lincoln from May 11 to May 16, 1998. The conference coincided with the Centennial Celebration of the Department of Mathematics and Statistics at the University of Nebraska Lincoln on the occasion of the one hundredth anniversary of the granting of the first Ph.D. by the department. Funding was provided by the US National Science Foundation, the Department of Mathematics and Statistics, and the College of Arts and Sciences at the University of Nebraska Lincoln through the College's focus program in Discrete, Experimental, and Applied Mathematics. The purpose of the conference was to bring together researchers with interests in algorithmic problems in group theory, semigroup theory, and computer science. A particularly useful feature of this conference was that it provided a framework for exchange of ideas between the research communities in semigroup theory and group theory, and several of the papers collected here reflect this interaction of ideas. The papers collected in this volume represent a cross section of some of the results and ideas that were discussed in the conference. They reflect a synthesis of overlapping ideas and techniques stimulated by problems concerning finite monoids, finitely presented monoids, finitely presented groups, and free groups. *Proceedings of the International Conference on Semigroups* Paula Smith, Emilia Giraldes, Paula Martins, 2000 This book contains contributions by leading experts which cover an extensive range of topics in semigroups theory. Some of the articles exhibit the strong links with theoretical computer science. Several survey articles summarize the salient features of special fields of the theory of particular interest in the contemporary research. Special care has been taken in the presentation of the papers making them accessible to a large audience. **Semigroups** Pierre A. Grillet, 2017-11-22 This work offers concise coverage of the structure theory of semigroups. It examines constructions and descriptions of semigroups and emphasizes finite commutative, regular, and inverse semigroups. Many structure theorems on regular and commutative semigroups are introduced. College or university bookstores may order five or more copies at a special student price which is available upon request from Marcel Dekker Inc. **Semigroup Algebras** Jan Okninski, 2020-08-27 Gathers and unifies the results of the theory of noncommutative semigroup rings, primarily drawing on the literature of the last 10 years and including several new results. Okninski, Warsaw, U. Poland restricts coverage to the ring-theoretical properties for which a systematic treatment is current. **Lattices, Semigroups, and Universal Algebra** Jorge Almeida, Gabriela Bordalo, Philip Dwinger, 2013-11-11 This volume contains papers which for the most part are based on talks given at an international conference on Lattices, Semigroups, and Universal Algebra that was held in Lisbon, Portugal, during the week of June 20-24, 1988. The conference was dedicated to the memory of Professor Antonio Almeida Costa, a Portuguese mathematician who greatly contributed to the development of the algebra in Portugal on the 10th anniversary of his death. The themes of the conference reflect some of his research interests and those of his students. The purpose of the conference was to gather leading experts in Lattices, Semigroups, and Universal Algebra and to promote a discussion of recent developments and

trends in these areas All three fields have grown rapidly during the last few decades with varying degrees of interaction Lattice theory and Universal Algebra have historically evolved alongside with a large overlap between the groups of researchers in the two fields More recently techniques and ideas of these theories have been used extensively in the theory of semigroups Conversely some developments in that area may inspire further developments in Universal Algebra On the other hand techniques of semi group theory have naturally been employed in the study of semilattices Several papers in this volume elaborate on these interactions

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