

# **SEMIGROUPS**

## **Algebraic Theory and Applications to Formal Languages and Codes**

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# Semigroups Algebraic Theory And Applications To Formal Languages And Codes

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## **Semigroups Algebraic Theory And Applications To Formal Languages And Codes:**

**Semigroups** Celestina Bonzini, Alessandra Cherubini, C. Tibiletti, 1993-01-01      **Semigroups** Celestina Bonzini, Alessandra Cherubini, C. Tibiletti, 1993      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      Finiteness and Regularity in Semigroups and Formal Languages Aldo de Luca, Stefano Varricchio, 2012-12-06 The aim of this monograph is to present some recent research work on the combinatorial aspects of the theory of semigroups which are of great interest for both algebra and theoretical computer science This research mainly concerns that part of combinatorics of finite and infinite words over a finite alphabet which is usually called the theory of unavoidable regularities The unavoidable regularities of sufficiently large words over a finite alphabet are very important in the study of finiteness conditions for semigroups This problem consists in considering conditions which are satisfied by a finite semigroup and are such as to assure that a semigroup satisfying them is finite The most natural requirement is that the semigroup is finitely generated If one supposes that the semigroup is also periodic the study of finiteness conditions for these semigroups or groups is called the Burnside problem for semigroups or groups There exists an important relationship with the theory of finite automata because as is well known a language  $L$  over a finite alphabet is regular that is recognizable by a finite automaton if and only if its syntactic monoid  $S_L$  is finite Hence in principle any finiteness condition for semigroups can be translated into a regularity condition for languages The study of finiteness conditions for periodic languages  $L$  such that the syntactic semigroup is periodic has been called the Burnside problem for languages      *Combinatorial Algebra: Syntax and Semantics* Mark V. Sapir, 2014-10-06 *Combinatorial Algebra Syntax and Semantics* provides comprehensive account of many areas of combinatorial algebra It contains self contained proofs of more than 20 fundamental results both classical and modern This includes Golod Shafarevich and Olshanskii's solutions of Burnside problems Shirshov's solution of Kurosh's problem for PI rings Belov's solution of Specht's problem for varieties of rings Grigorchuk's solution of Milnor's problem Bass Guivarcs theorem about growth of nilpotent groups Kleiman's solution of Hanna Neumann's problem for varieties of groups Adian's solution of von Neumann Day's problem Trahtman's solution of the road coloring problem of Adler Goodwyn and Weiss The book emphasizes several universal tools such as trees subshifts uniformly recurrent words diagrams and automata With over 350 exercises at various levels of difficulty and with hints for the more difficult problems this book can be used as a textbook and aims to reach a wide and diversified audience No prerequisites beyond standard courses in linear and abstract algebra are required The broad appeal of this textbook extends to a variety of student levels from advanced high schoolers to undergraduates and graduate students including those in search of a Ph D thesis who will benefit from the Further reading and open problems

sections at the end of Chapters 2-5. The book can also be used for self study engaging those beyond the classroom setting researchers instructors students virtually anyone who wishes to learn and better understand this important area of mathematics.

**Completely Regular Semigroup Varieties** Mario Petrich, Norman R. Reilly, 2024-03-11 This book is a unified treatment of the most important core developments in the theory of completely regular semigroup theory as it stands today. This volume focuses on the lattice of varieties of completely regular semigroups. Since any in depth study of the lattice of varieties requires an understanding of free completely regular semigroups the book begins by describing the free object on countably infinite sets and the properties of the lattice of fully invariant congruences on the free object. The authors introduce various associated relations and operators on the lattice of varieties of completely regular semigroups. Following that the book covers the sublattice of varieties of bands with a focus on the influence of that sublattice on the structure of the whole lattice. The book concludes with the remarkable theorem due to Polk describing the whole lattice of varieties of completely regular as a subdirect product of lattices some of which are well understood. The authors include recent advances insights results and techniques throughout the book.

Handbook of Formal Languages Grzegorz Rozenberg, 1997 This uniquely authoritative and comprehensive handbook is the first work to cover the vast field of formal languages as well as their applications to the divergent areas of linguistics developmental biology computer graphics cryptology molecular genetics and programming languages. The work has been divided into three volumes.

Group Theory, Statistics, and Cryptography Alexei G. Myasnikov, Vladimir Shpilrain, 2004 This volume consists of contributions by speakers at the AMS Special Session on Combinatorial and Statistical Group Theory held at New York University. Readers will find a variety of contributions including survey papers on applications of group theory in cryptography research papers on various aspects of statistical group theory and papers on more traditional combinatorial group theory. The book is suitable for graduate students and research mathematicians interested in group theory and its applications to cryptography.

**Algebraic Engineering - Proceedings Of The First International Conference On Semigroups And Algebraic Eng And Workshop On For** Chrystopher L Nehaniv, Masami Ito, 1999-05-14 There is algebraic structure in time computation and biological systems. Algebraic engineering exploits this structure to achieve better understanding and design. In this book pure and applied results in semigroups language theory and algebra are applied to areas ranging from circuit design to software engineering to biological evolution.

**Semigroups And Formal Languages - Proceedings Of The International Conference** Gracinda M S Gomes, Mario J J Branco, Jorge M Andre, Vitor H Fernandes, John Fountain, John C Meakin, 2007-06-11 This festschrift volume in honour of Donald B McAlister on the occasion of his 65th birthday presents papers from leading researchers in semigroups and formal languages. The contributors cover a number of areas of current interest from pseudovarieties and regular languages to ordered groupoids and one relator groups and from semigroup algebras to presentations of monoids and transformation semigroups. The papers are accessible to graduate students as well as

researchers seeking new directions for future work      *Model Theory of Groups and Automorphism Groups* David M. Evans, 1997-07-10 Surveys recent interactions between model theory and other branches of mathematics notably group theory      *Automata, Languages and Programming* Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, Paul Spirakis, 2010-07-05 Annotation The two volume set LNCS 6198 and LNCS 6199 constitutes the refereed proceedings of the 37th International Colloquium on Automata Languages and Programming ICALP 2010 held in Bordeaux France in July 2010 The 106 revised full papers 60 papers for track A 30 for track B and 16 for track C presented together with 6 invited talks were carefully reviewed and selected from a total of 389 submissions The papers are grouped in three major tracks on algorithms complexity and games on logic semantics automata and theory of programming as well as on foundations of networked computation models algorithms and information management LNCS 6199 contains 46 contributions of track B and C selected from 167 submissions as well as 4 invited talks      *Applied Abstract Algebra* Rudolf Lidl, Günter Pilz, 2012-12-06 There is at present a growing body of opinion that in the decades ahead discrete mathematics that is noncontinuous mathematics and therefore parts of applicable modern algebra will be of increasing importance Certainly one reason for this opinion is the rapid development of computer science and the use of discrete mathematics as one of its major tools The purpose of this book is to convey to graduate students or to final year undergraduate students the fact that the abstract algebra encountered previously in a first algebra course can be used in many areas of applied mathematics It is often the case that students who have studied mathematics go into postgraduate work without any knowledge of the applicability of the structures they have studied in an algebra course In recent years there have emerged courses and texts on discrete mathematics and applied algebra The present text is meant to add to what is available by focusing on three subject areas The contents of this book can be described as dealing with the following major themes Applications of Boolean algebras Chapters 1 and 2 Applications of finite fields Chapters 3 to 5 Applications of semigroups Chapters 6 and 7

*Monoids, Acts and Categories* Mati Kilp, Ulrich Knauer, Alexander V. Mikhalev, 2011-06-24 The aim of the Expositions is to present new and important developments in pure and applied mathematics Well established in the community over more than two decades the series offers a large library of mathematical works including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers interested in a thorough study of the subject Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin Wendland University of Freiburg Germany Honorary Editor Victor P Maslov Russian Academy of Sciences Moscow Russia Titles in planning include Yuri A Bahturin Identical Relations in Lie Algebras 2019 Yakov G Berkovich Lev G Kazarin and Emmanuel M Zhmud Characters of Finite Groups Volume 2 2019 Jorge Herbert Soares de Lira Variational

Problems for Hypersurfaces in Riemannian Manifolds 2019 Volker Mayer Mariusz Urbański and Anna Zdunik Random and Conformal Dynamical Systems 2021 Ioannis Diamantis Bojana Gabrovšek Sofia Lambropoulou and Maciej Mroczkowski Knot Theory of Lens Spaces 2021 Algebraic Theory of Automata Networks Pal Domosi, Christopher L. Nehaniv, 2005-01-01

Investigates automata networks as algebraic structures and develops their theory in line with other algebraic theories such as those of semigroups groups rings and fields The authors also investigate automata networks as products of automata that is as compositions of automata obtained by cascading without feedback or with feedback of various restricted types or most generally with the feedback dependencies controlled by an arbitrary directed graph They survey and extend the fundamental results in regard to automata networks including the main decomposition theorems of Letichevsky of Krohn and Rhodes and of others **Language and Automata Theory and Applications** Adrian-Horia Dediu, Carlos Martín-Vide, Shunsuke Inenaga, 2011-05-27

This book constitutes the refereed proceedings of the 5th International Conference on Language and Automata Theory and Applications LATA 2011 held in Tarragona Spain in May 2011 The 36 revised full papers presented together with four invited articles were carefully selected from 91 submissions Among the topics covered are algebraic language theory automata and logic systems analysis systems verifications computational complexity decidability unification graph transformations language based cryptography and applications in data mining computational learning and pattern recognition Fuzzy Abel Grassmann Groupoids Madad Khan, Florentin Smarandache, Tariq Aziz, 2015-01-15

**Mathematical Hierarchies and Biology** Boris Grigor'evich Mirkin, 1997 Twenty four articles from the November 1996 workshop investigate the reconstruction of trees or ranking hierarchies from dissimilarity or entity to character data the use of hierarchies for modeling evolution and other processes and the combining of gene trees Included are mathematical treatments of hierarchies in the frameworks of set systems linear subspaces graph objects and tree metrics in their analyses Such current applications as learning robots intron evolution and the development of language are addressed Annotation copyrighted by Book News Inc Portland OR **Finite Semigroups And Universal Algebra** Jorge Almeida, 1995-01-27

Motivated by applications in theoretical computer science the theory of finite semigroups has emerged in recent years as an autonomous area of mathematics It fruitfully combines methods ideas and constructions from algebra combinatorics logic and topology In simple terms the theory aims at a classification of finite semigroups in certain classes called pseudovarieties The classifying characteristics have both structural and syntactical aspects the general connection between them being part of universal algebra Besides providing a foundational study of the theory in the setting of arbitrary abstract finite algebras this book stresses the syntactical approach to finite semigroups This involves studying relatively free and profinite free semigroups and their presentations The techniques used are illustrated in a systematic study of various operators on pseudovarieties of semigroups **Theory of Codes**, 1985-07-10 Theory of Codes

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