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VOLUME 3

FINITE SEMIGROUPS AND UNIVERSAL ALGEBRA

Jorge Almeida

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Finite Semigroups And Universal Algebra

**Peter Höfner, Damien Pous, Georg
Struth**



Finite Semigroups And Universal Algebra:

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

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

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 10 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 semigroup theory have naturally been employed in the study of semilattices Several papers in this volume elaborate on these interactions

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

Semigroups, Algorithms, Automata And Languages Gracinda M S Gomes, Jean-eric Pin, Pedro V Silva, 2002-11-26 The thematic term on Semigroups Algorithms Automata and Languages organized at the International Centre of Mathematics Coimbra Portugal in May July 2001 was the gathering point for researchers working in the field of semigroups algorithms automata and languages These areas were selected considering their huge recent developments their potential applications and the motivation from other fields of mathematics and computer science This proceedings volume is a unique collection of advanced courses and original contributions on semigroups and their connections with logic automata languages group theory discrete dynamics topology and complexity A selection of open problems discussed during the thematic term is also included *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 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 **Algebraic Informatics** Franz Winkler,2011-06-16 This book constitutes the refereed proceedings of the 4th International Conference on Algebraic Informatics CAI 2011 held in Linz Austria in June 2011 The 12 revised full papers presented together with 4 invited articles were carefully reviewed and selected from numerous submissions The papers cover topics such as algebraic semantics on graph and trees formal power series syntactic objects algebraic picture processing finite and infinite computations acceptors and transducers for strings trees graphs arrays etc decision problems algebraic characterization of logical theories process algebra algebraic algorithms algebraic coding theory and algebraic aspects of cryptography **Relational and Algebraic Methods in Computer Science** Peter Höfner,Damien Pous,Georg

Struth,2017-05-08 This book constitutes the proceedings of the 16th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2017 held in Lyon France in May 2017 The 17 revised full papers and 2 invited papers presented together with 1 invited abstract were carefully selected from 28 submissions Topics covered range from mathematical foundations to applications as conceptual and methodological tools in computer science and beyond The

q-theory of Finite Semigroups John Rhodes,Benjamin Steinberg,2010-12-06 This comprehensive encyclopedic text in four parts aims to give the reader from the graduate student to the researcher practitioner a detailed understanding of modern finite semigroup theory focusing in particular on advanced topics on the cutting edge of research The q theory of Finite Semigroups presents important techniques and results many for the first time in book form thereby updating and modernizing the semigroup theory literature 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

Mathematical Foundations of Computer Science 2009 Rastislav Královic,Damian Niwinski,2009-08-19 This book constitutes the refereed proceedings of the 34th International Symposium on Mathematical Foundations of Computer Science MFCS 2009 held in Novy Smokovec High Tatras Slovakia in August 2009 The 56 revised full papers presented together with 7 invited lectures were carefully reviewed and selected from 148 submissions All current aspects in theoretical computer science and its mathematical foundations are addressed including algorithmic game theory algorithmic learning theory algorithms and data structures automata grammars and formal languages bioinformatics complexity computational geometry computer assisted reasoning concurrency theory cryptography and security databases and knowledge based systems formal specifications and program development foundations of computing logic in computer science mobile computing models of computation networks parallel and distributed computing quantum computing semantics and verification of programs theoretical issues in artificial intelligence **Automata, Languages and Programming** Luca

Aceto, Ivan Damgaard, Leslie Ann Goldberg, Magnus M. Halldorsson, Anna Ingolfssdottir, Igor Walukiewicz, 2008-06-24 ICALP 2008 the 35th edition of the International Colloquium on Automata Languages and Programming was held in Reykjavik Iceland July 7 11 2008 ICALP is a series of annual conferences of the European Association for Theoretical Computer Science EATCS which first took place in 1972 This year the ICALP program consisted of the established Track A focusing on algorithms automata complexity and games and Track B focusing on logic semantics and theory of programming and of the recently introduced Track C focusing on security and cryptography foundations In response to the call for papers the Program Committees received 477 submissions the highest ever 269 for Track A 122 for Track B and 86 for Track C Out of these 126 papers were selected for inclusion in the scientific program 70 papers for Track A 32 for Track B and 24 for Track C The selection was made by the Program Committees based on originality quality and relevance to theoretical computer science The quality of the manuscripts was very high indeed and many deserving papers could not be selected ICALP 2008 consisted of five invited lectures and the contributed papers

Developments in Language Theory Clelia De Felice, 2005-06-20 This book constitutes the refereed proceedings of the 9th International Conference on Developments in Language Theory DLT 2005 held in Palermo Italy in July 2005 The 29 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 73 submissions All important issues in language theory are addressed including grammars acceptors and transducers for strings trees graphs and arrays efficient text algorithms algebraic theories for automata and languages variable length codes symbolic dynamics decision problems relations to complexity theory and logic picture description and analysis cryptography concurrency DNA computing and quantum computing

Developments in Language Theory Masami Ito, 2008-09-04 This book constitutes the refereed proceedings of the 12th International Conference on Developments in Language Theory DLT 2008 held in Kyoto Japan September 2008 The 36 revised full papers presented together with 6 invited papers were carefully reviewed and selected from 102 submissions All important issues in language theory are addressed including grammars acceptors and transducers for words trees and graphs algebraic theories of automata algorithmic combinatorial and algebraic properties of words and languages variable length codes symbolic dynamics cellular automata polyominoes and multidimensional patterns decidability questions image manipulation and compression efficient text algorithms relationships to cryptography concurrency complexity theory and logic bio inspired computing quantum computing

Role Of Theory In Computer Science, The: Essays Dedicated To Janusz Brzozowski Stavros Konstantinidis, Nelma Moreira, Rogerio Reis, Jeffrey Shallit, 2017-04-25 This volume brings together the work of several prominent researchers who have collaborated with Janusz Brzozowski or worked in topics he developed in the areas of regular languages syntactic semigroups of formal languages the dot depth hierarchy and formal modeling of circuit testing and software specification using automata theory

Automata, Languages and Programming Susanne Albers, Alberto Marchetti-Spaccamela, Yossi Matias, Sotiris Nikolettseas, Wolfgang Thomas, 2009-07-06 ICALP 2009 the 36th edition of the

International Colloquium on Automata Languages and Programming was held on the island of Rhodes July 6 10 2009 ICALP is a series of annual conferences of the European Association for Theoretical Computer Science EATCS which first took place in 1972 This year the ICALP program consisted of the established track A focusing on algorithms complexity and games and track B focusing on logic automata semantics and theory of programming and of the recently introduced track C in 2009 focusing on foundations of networked computation In response to the call for papers the Program Committee received 370 submissions 223 for track A 84 for track B and 63 for track C Out of these 108 papers were selected for inclusion in the scientific program 62 papers for track A 24 for track B and 22 for track C The selection was made by the Program Committees based on originality quality and relevance to theoretical computer science The quality of the manuscripts was very high indeed and many deserving papers could not be selected ICALP 2009 consisted of five invited lectures and the contributed papers

Algebraic Structures In Automata And Database Theory L. Ja Greenglaz, A. A. Gvaramija, B. I. Plotkin, 1992-12-10 The book is devoted to the investigation of algebraic structure The emphasis is on the algebraic nature of real automation which appears as a natural three sorted algebraic structure that allows for a rich algebraic theory Based on a general category position fuzzy and stochastic automata are defined The final chapter is devoted to a database automata model Database is defined as an algebraic structure and this allows us to consider theoretical problems of databases

Algebraic Structures in Automata and Databases Theory Boris Isaakovich Plotkin, L. Ja Greenglaz, A. A. Gvaramija, 1992 The book is devoted to the investigation of algebraic structure The emphasis is on the algebraic nature of real automation which appears as a natural three sorted algebraic structure that allows for a rich algebraic theory Based on a general category position fuzzy and stochastic automata are defined The final chapter is devoted to a database automata model Database is defined as an algebraic structure and this allows us to consider theoretical problems of databases

Developments in Language Theory Mizuho Hoshi, Shinnosuke Seki, 2018-09-03 This book constitutes the proceedings of the 22nd International Conference on Developments in Language Theory DLT 2018 held in Tokyo Japan in September 2018 The 39 full papers presented in this volume were carefully reviewed and selected from 84 submissions The papers cover the following topics and areas combinatorial and algebraic properties of words and languages grammars acceptors and transducers for strings trees graphics arrays algebraic theories for automata and languages codes efficient text algorithms symbolic dynamics decision problems relationships to complexity theory and logic picture description and analysis polyominoes and bidimensional patterns cryptography concurrency cellular automata bio inspired computing quantum computing

Contributions to Universal Algebra B. Csákány, J. Schmidt, 2014-05-15 Contributions to Universal Algebra focuses on the study of algebra The compilation first discusses the congruence lattice of pseudo simple algebras elementary properties of limit reduced powers with applications to Boolean powers and congruent lattices of 2 valued algebras The book further looks at duality for algebras weak homomorphisms of stone algebras varieties of modular lattices not generated by their finite dimensional

members and remarks on algebraic operations of stone algebras The text describes polynomial normal forms and the embedding of polynomial algebras coverings in the lattice of varieties embedding semigroups in semigroups generated by idempotents and endomorphism semigroups and subgroupoid lattices The book also discusses a report on sublattices of a free lattice and then presents the cycles in finite semi distributive lattices cycles in S lattices and summary of results The text also describes primitive subsets of algebras ideals normal sets and congruences as well as Jacobson s density theorem The book is a good source for readers wanting to study algebra

Finite Semigroups And Universal Algebra Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Finite Semigroups And Universal Algebra**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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