Mathematical Surveys and Monographs

Number 7
Part I

The Algebraic Theory of Semigroups

A. H. Clifford
G. B. Preston

American Mathematical Society

The Algebraic Theory Of Semigroups 002 Mathematical Survey No 7

Grzegorz Rozenberg,Arto Salomaa

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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 Nineteen Papers on Algebraic Semigroups Ben Silver,1988-12-31 This volume contains papers selected by leading specialists in algebraic semigroups in the U S the United Kingdom and Australia Many of the papers strongly influenced the development of algebraic semigroups but most were virtually unavailable outside the U S S R Written by some of the most prominent Soviet researchers in the field the papers have a particular emphasis on semigroups of transformations Boris Schein of the University of Arkansas is the translator **Mathematics across the Iron Curtain** Christopher Hollings,2014-07-16 The theory of semigroups is a relatively young branch of mathematics with most of the major results having appeared after the Second World War This book describes the evolution of algebraic semigroup theory from its earliest origins to the establishment of a full fledged theory Semigroup theory might be termed Cold War mathematics because of the time during which it developed There were thriving schools on both sides of the Iron Curtain although the two sides were not always able to communicate with each other or even gain access to the other s publications A major theme of this book is the comparison of the approaches to the subject of mathematicians in East and West and the study of the extent to which contact between the two sides was possible *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 *Canadian Mathematical Bulletin* ,1966 Canadian Journal of Mathematics ,1990-12 Canadian Journal of Mathematics ,1972-08 Canadian Mathematical Bulletin ,1976-03 *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 *Canadian Journal of Mathematics* ,1966 **Canadian Mathematical Bulletin** ,1966 Handbook of Formal Languages Grzegorz Rozenberg,Arto Salomaa,2012-12-06 The need for a comprehensive survey type exposition on formal languages and related mainstream areas of computer science has been evident for some years If the early 1970s when the book Formal Languages by the second quite feasible to write a comprehensive mentioned editor appeared it was still book with that title and include also topics of current research interest This would not be possible anymore A standard sized book on formal languages would either have to stay on a fairly low level or else be specialized and restricted to some narrow sector of the field The setup becomes drastically different in a collection of contributions where the best authorities in the world join forces each of them concentrat ing on their own areas of specialization The present three volume Handbook constitutes such a unique collection In these three volumes we present the current state of the art in formal language theory We were most satisfied with the enthusiastic response given to our request for contributions by specialists representing various subfields The need for a Handbook of Formal Languages was in many answers expressed in different ways as an easily accessible his torical reference a general source of information an overall course aid and a compact collection of material for self study We are convinced that the final result will satisfy such various needs The theory of formal languages constitutes the stem or backbone of the field of science now generally known as theoretical computer science 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 th 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 semi group theory have naturally been employed in the study of semilattices Several papers in this volume elaborate on these interactions *Probabilistic Analysis and Related Topics* A. T. Bharucha-Reid,2014-05-10 Probabilistic Analysis and Related Topics Volume 2 focuses on the integrability continuity and differentiability of random functions as well as functional analysis measure theory operator theory and numerical analysis The selection first offers

information on the optimal control of stochastic systems and Gleason measures Discussions focus on convergence of Gleason measures random Gleason measures orthogonally scattered Gleason measures existence of optimal controls without feedback random necessary conditions and Gleason measures in tensor products The text then elaborates on an introduction to nonstandard analysis and hyperfinite probability theory including applications to stochastic processes conversion from nonstandard to standard measure spaces and an introduction to nonstandard analysis The text examines stochastic matrices ergodic Markov chains and measures on semigroups as well as limit theorems for convolution products of probability measures on completely simple semigroups ergodicity of Markov chains and probability measures on semigroups and limits of convolutions in groups and semigroups The selection is a dependable source of data for mathematicians and researchers interested in the general theory of random functions Combinatorial and Geometric Group Theory Sean Cleary,2002 This volume grew out of two AMS conferences held at Columbia University New York NY and the Stevens Institute of Technology Hoboken NJ and presents articles on a wide variety of topics in group theory Readers will find a variety of contributions including a collection of over 170 open problems in combinatorial group theory three excellent survey papers on boundaries of hyperbolic groups on fixed points of free group automorphisms and on groups of automorphisms of compactRiemann surfaces and several original research papers that represent the diversity of current trends in combinatorial and geometric group theory The book is an excellent reference source for graduate students and research mathematicians interested in various aspects of group theory **New Trends In Algebras And Combinatorics - Proceedings Of The Third International Congress In Algebras And Combinatorics (Icac2017)** Kar Ping Shum,Efim Zelmanov,Pavel Kolesnikov,Anita S M Wong,2020-02-18 This volume composed of twenty four research articles which are selected from the keynote speakers and invited lectures presented in the 3rd International Congress in Algebra and Combinatorics ICAC2017 held on 25 28 August 2017 in Hong Kong and one additional invited article This congress was specially dedicated to Professor Leonid Bokut on the occasion of his 80th birthday **General Topology and Applications** Shortt,1990-02-23 Proceedings of the Northeast Conference on the subject at Wesleyan University Connecticut in June 1988 The two dozen papers by mathematicians from the US Canada and the Netherlands report on recent advances in topology for research mathematicians and graduate students They focus on the theor Semigroups and Automata Uno Kaljulaid,2006-02-16 This volume provides a selection of previously published papers and manuscripts of Uno Kaljulaid an eminent Estonian algebraist of the last century The central part of the book is the English translation of Kaljulaid s 1979 Candidate thesis which originally was typewritten in Russian and manufactured in not so many copies The thesis is devoted to representation theory in the spirit of his thesis advisor B I Plotkin representations of semigroups and algebras especially extension to this situation and application of the notion of triangular product of representations for groups introduced by Plotkin Through representation theory Kaljulaid became also interested in automata theory which at a later phase became his main area of interest Another

field of research concerns combinatorics Besides being an outstanding and most dedicated mathematician Uno Kaljulaid was also very much interested in the history of mathematics In particular he took a vivid interest in the life and work of the great 19th century Dorpat Tartu algebraist Th Molien Kaljulaid was also very interested in teaching and exposition or popularization of mathematics Some of his more popular scientific papers were published in an Estonian language journal Matemaatika ja Kaasaeg Mathematics and Our Age Among them there is a whole series of papers about algebraic matters culminating in a brilliant elementary although partly rather philosophical essay devoted to Galois theory Another such series is his excellent essay of Diophantine Geometry in various installments followed by his loge to another of his teachers Yu I Manin It is believed that the inclusion of these papers here will make it more interesting for beginners and perhaps even contribute to attracting young people to mathematics *Completely Regular Semigroup Varieties* Mario Petrich,Norman R. Reilly,2025-02-04 This book presents further developments and applications in the area of completely regular semigroup theory beginning with applications of Pol k s theorem to obtain detailed descriptions of various kernel classes including the K class covers of the kernel class of all bands The important property of modularity of the lattice of varieties of completely regular semigroups is then employed to analyse various principal sublattices This is followed by a study of certain important complete congruences on the lattice the group local and core relations The next chapter is devoted to a further treatment of certain free objects and related word problems There are many constructions in the theory of semigroups Those that have played an important role in the theory of varieties of completely regular semigroups are presented as they apply in this context The mapping that takes each variety to its intersection with the variety of bands is a complete retraction of the lattice of varieties of completely regular semigroups onto the lattice of band varieties and so induces a complete congruence for which every class has a greatest member The sublattice generated by these greatest members is then investigated with the help of many applications of Pol k s theorem The book closes with a fascinating conjecture regarding the structure of this sublattice **Lie Semigroups and their Applications** Joachim Hilgert,Karl-Hermann Neeb,2006-11-15 Subsemigroups of finite dimensional Lie groups that are generated by one parameter semigroups are the subject of this book It covers basic Lie theory for such semigroups and some closely related topics These include ordered homogeneous manifolds where the order is defined by a field of cones invariant cones in Lie algebras and associated Ol shanskii semigroups Applications to representation theory symplectic geometry and Hardy spaces are also given The book is written as an efficient guide for those interested in subsemigroups of Lie groups and their applications in various fields of mathematics see the User s guide at the end of the Introduction Since it is essentially self contained and leads directly to the core of the theory the first part of the book can also serve as an introduction to the subject The reader is merely expected to be familiar with the basic theory of Lie groups and Lie algebras

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