

# Semigroups and Their Applications

Simon M. Goberstein and  
Peter M. Higgins (eds.)



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# Semigroups And Their Applications

**Joachim Hilgert, Karl-Hermann Neeb**



## Semigroups And Their Applications:

**Semigroups and Their Applications** Simon M. Goberstein, Peter M. Higgins, 2012-12-06 Most papers published in this volume are based on lectures presented at the Chico Conference on Semigroups held on the Chico campus of the California State University on April 10-12 1986 The conference was sponsored by the California State University Chico in cooperation with the Engineering Computer Sciences Department of the Pacific Gas and Electric Company The program included seven 50 minute addresses and seventeen 30 minute lectures Speakers were invited by the organizing committee consisting of S M Goberstein and P M Higgins The purpose of the conference was to bring together some of the leading researchers in the area of semigroup theory for a discussion of major recent developments in the field The algebraic theory of semigroups is growing so rapidly and new important results are being produced at such a rate that the need for another meeting was well justified It was hoped that the conference would help to disseminate new results more rapidly among those working in semigroups and related areas and that the exchange of ideas would stimulate research in the subject even further These hopes were realized beyond all expectations

*Lie Semigroups and Their Applications* Joachim Hilgert, Karl-Hermann Neeb, 2014-09-01 *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 Olshanskii 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

Semigroups and Their Subsemigroup Lattices L.N. Shevrin, A.J. Ovsyannikov, 2013-03-09 0 1 General remarks For any algebraic system  $A$  the set  $\text{Sub}A$  of all subsystems of  $A$  partially ordered by inclusion forms a lattice This is the subsystem lattice of  $A$  In certain cases such as that of semigroups in order to have the right always to say that  $\text{Sub}A$  is a lattice we have to treat the empty set as a subsystem The study of various inter relationships between systems and their subsystem lattices is a rather large field of investigation developed over many years This trend was formed first in group theory basic relevant information up to the early seventies is contained in the book Suz and the surveys K Pek St Sad 2 Ar Sad there is also a quite recent book Schm 2 As another inspiring source one should point out a branch of mathematics to which the book Baer was devoted One of the key objects of examination in this branch is the subspace lattice of a vector space over a skew field A more general approach deals with modules and their submodule lattices Examining subsystem lattices for the case of modules as well as for rings and algebras both associative and non associative in particular Lie

algebras began more than thirty years ago there are results on this subject also for lattices Boolean algebras and some other types of algebraic systems both concrete and general A lot of works including several surveys have been published here

**Semigroup Theory and Its Applications** Alfred H. 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

**Operator Algebras and Their Applications** Peter A. Fillmore, James A. Mingo, 1997 The study of operator algebras which grew out of von Neumann's work in the 1920s and the 1930s on modelling quantum mechanics has in recent years experienced tremendous growth and vitality This growth has resulted in significant applications in other areas both within and outside mathematics The field was a natural candidate for a 1994-1995 programme year in Operator Algebras and Applications held at The Fields Institute for Research in the Mathematical Sciences This volume contains a selection of papers that arose from the seminars and workshops of the programme Topics covered include the classification of amenable  $C^*$  algebras the Baum-Connes conjecture  $E_0$  semigroups subfactors  $E$  theory quasicrystals and the solution to a long standing problem in operator theory can almost commuting self adjoint matrices be approximated by commuting self adjoint matrices

**Commutative Algebra and its Applications** Marco Fontana, Salah-Eddine Kabbaj, Bruce Olberding, Irena Swanson, 2009-09-04 This volume contains selected refereed papers based on lectures presented at the Fifth International Fez Conference on Commutative Algebra and Applications that was held in Fez Morocco in June 2008 The volume represents new trends and areas of classical research within the field with contributions from many different countries In addition the volume has as a special focus the research and influence of Alain Bouvier on commutative algebra over the past thirty years

**Abstract Parabolic Evolution Equations and their Applications** Atsushi Yagi, 2009-11-03 This monograph is intended to present the fundamentals of the theory of abstract parabolic evolution equations and to show how to apply to various nonlinear diffusion equations and systems arising in science The theory gives us a unified and systematic treatment for concrete nonlinear diffusion models Three main approaches are known to the abstract parabolic evolution equations namely the semigroup methods the variational methods and the methods of using operational equations In order to keep the volume of the monograph in reasonable length we will focus on the semigroup methods For other two approaches see the related references in Bibliography The semigroup methods which go back to the invention of the analytic semigroups in the middle of the last century are characterized by precise formulas

representing the solutions of the Cauchy problem for evolution equations The analytic semigroup  $e^{tA}$  generated by a linear operator  $A$  provides directly a fundamental solution to the Cauchy problem for an autonomous linear evolution equation  $u_t = Au$ ,  $u(0) = f$

**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

**Semigroups Of Matrices** Jan Okninski, 1998-07-31 This book is concerned with the structure of linear semigroups that is subsemigroups of the multiplicative semigroup  $M_n(K)$  of  $n \times n$  matrices over a field  $K$  or more generally skew linear semigroups if  $K$  is allowed to be a division ring and its applications to certain problems on associative algebras semigroups and linear representations It is motivated by several recent developments in the area of linear semigroups and their applications It summarizes the state of knowledge in this area presenting the results for the first time in a unified form The book's point of departure is a structure theorem which allows the use of powerful techniques of linear groups Certain aspects of a combinatorial nature connections with the theory of linear representations and applications to various problems on associative algebras are also discussed

**Topics in the Theory of Gibbs Semigroups** Valentin Zagrebnov, 2003 One parameter semigroup theory started to be an important branch of mathematics in the thirties when it was realized that the theory has direct applications to partial differential equations random processes infinite dimensional control theory mathematical physics etc It is now generally accepted as an integral part of contemporary functional analysis Compact strongly continuous semigroups have been an important research subject since a long time as in almost all applications of partial differential equations with bounded domains the semigroups turn out to be compact From this point of view the present volume of the Leuven Notes in Mathematical and Theoretical Physics emphasizes a special subclass of these semigroups In fact the focus here is mainly on semigroups acting on a Hilbert space  $H$  with values in the trace class ideal  $C_1(H)$  of bounded operators on  $H$  Historically this class of semigroups is closely related to quantum statistical mechanics

*New Trends in Algebras and Combinatorics* K. P. Shum, 2020      **Nonlinear Functional Analysis and Its Applications, Part 1** Felix E. Browder, 1986      *Discrete Mathematical Structures and Their Applications* Harold S. Stone, 1973      **Algebra and Its Applications** D. V. Huynh, Dinh Van Huynh, Surender Kumar Jain, Sergio R. López-Permouth, 2006 This volume consists of contributions by speakers at a Conference on Algebra and its Applications that took place in Athens Ohio in March of 2005 It provides a snapshot of the diversity of themes and applications that interest algebraists today The papers in this volume include some of the latest results in the theory of modules noncommutative rings representation theory matrix theory linear algebra over noncommutative rings cryptography error correcting codes over finite rings and projective geometry codes as well as expository articles that will provide algebraists and other mathematicians including graduate students with an accessible introduction to areas outside their own expertise The book will serve both the specialist looking for the latest result and the novice seeking an accessible reference for some of the ideas and results presented here      *Semigroups* Karl Wilmot Folley, 1969 The papers published in the volume are based on the lectures presented in connection with the Symposium on Semigroups held at Wayne State University Detroit Michigan June 27 29 1968 The purpose of the Symposium was to emphasize the algebraic structure of semigroups the structure of topological semigroups and harmonic analysis on semigroups with results of research reported by distinguished mathematicians      **Applied Algebra, Algebraic Algorithms and Error-Correcting Codes** Maria Bras-Amorós, Tom Høholdt, 2009-05-25 This book constitutes the refereed proceedings of the 18th International Symposium on Applied Algebra Algebraic Algorithms and Error Correcting Codes AAEEC 18 held in Tarragona Spain in June 2009 The 22 revised full papers presented together with 7 extended abstracts were carefully reviewed and selected from 50 submissions Among the subjects addressed are block codes including list decoding algorithms algebra and codes rings fields algebraic geometry codes algebra rings and fields polynomials permutations lattices cryptography cryptanalysis and complexity computational algebra algebraic algorithms and transforms sequences and boolean functions      **Numerical Semigroups** J.C. Rosales, P. A. García-Sánchez, 2009-12-24 Let  $N$  be the set of nonnegative integers A numerical semigroup is a nonempty subset  $S$  of  $N$  that is closed under addition contains the zero element and whose complement in  $N$  is finite If  $n_1, n_2, \dots, n_k$  are positive integers with  $\gcd(n_1, n_2, \dots, n_k) = 1$  then the set  $\{hn_1 + e_1 + n_2 + e_2 + \dots + n_k + e_k \mid h, e_i \in \mathbb{N}\}$  is a numerical semigroup Every numerical semigroup is of this form The simplicity of this concept makes it possible to state problems that are easy to understand but whose resolution is far from being trivial This fact attracted several mathematicians like Frobenius and Sylvester at the end of the 19th century This is how for instance the Frobenius problem arose concerned with finding a formula depending on  $n_1, n_2, \dots, n_k$  for the largest integer not belonging to  $hn_1 + e_1 + n_2 + e_2 + \dots + n_k + e_k$  see [52] for a nice state of the art on this problem      *Semigroups* T. E. Hall, P. R. Jones, G. B. Preston, 2014-05-10 *Semigroups* is a collection of papers dealing with models of classical statistics sequential computing machine inverse semi groups One paper explains the structure of inverse semigroups that leads to  $P$  semigroups or  $E$  unitary

inverse semigroups by utilizing the P theorem of W D Nunn Other papers explain the characterization of divisibility in the category of sets in terms of images and relations as well as the universal aspects of completely simple semigroups including amalgamation the lattice of varieties and the Hopf property Another paper explains finite semigroups which are extensions of congruence free semigroups where their set of congruences forms a chain The paper then shows how to construct such semigroups A finite semigroup which is decomposable into a direct product of cyclic semigroups which are not groups is actually uniquely decomposable One paper points out when a finite semigroup has such a decomposition and how its non group cyclic direct factors if any can be found The collection can prove useful for mathematicians statisticians students and professors of higher mathematics or computer science

Lie Groups and Subsemigroups with Surjective Exponential Function Karl Heinrich Hofmann, Wolfgang Ruppert, 1997 In the structure theory of real Lie groups there is still information lacking about the exponential function Most notably there are no general necessary and sufficient conditions for the exponential function to be surjective It is surprising that for subsemigroups of Lie groups the question of the surjectivity of the exponential function can be answered Under nature reductions setting aside the group part of the problem subsemigroups of Lie groups with surjective exponential function are completely classified and explicitly constructed in this memoir There are fewer than one would think and the proofs are harder than one would expect requiring some innovative twists The main protagonists on the scene are  $SL(2, \mathbb{R})$  and its universal covering group almost abelian solvable Lie groups ie vector groups extended by homotheties and compact Lie groups This text will also be of interest to those working in algebra and algebraic geometry

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