The membership problem in matrix semigroups

Given a finite set of matrices $G=\{M_1,M_2,...,M_k\}$ and a matrix M. Determine whether there exists a sequence of matrices $M_{i1},M_{i2},...,M_{il}$ from G such that $M_{i1}\times M_{i2}\times...\times M_{il}=M$



In other words, Let S be a given finitely generated semigroup of $n \times n$ matrices from $Z^{n \times n}(Q^{n \times n})$. Determine whether a matrix M belongs to S.



The motrality (membership for the zero matrix) is undecidable for 3x3 matrices. [M.Paterson]

Semigroups Of Matrices

E. S. Liapin

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nothing seems to be left of the original portrait Miraculously structured images appear briefly as we continue to apply the distortion procedure to successive images After 241 iterations the original picture reappears unchanged Apparently the pixels of the Poincare portrait were moving about in accordance with a strictly deterministic rule More importantly the set of all pixels the whole portrait was transformed by the distortion mechanism In this exam ple the transformation seems to have been a reversible one since the original was faithfully recreated It is not very farfetched to introduce a certain amount of randomness and irreversibility in the above example Think of a random miscoloring of some pixels or of inadvertently giving a pixel the color of its neighbor The methods in this book are geared towards being applicable to the asymp totics of such transformation processes The transformations form a semigroup in a natural way we want to investigate the long term behavior of random elements of this semigroup The Algebraic Theory of Semigroups, Volume I Alfred Hoblitzelle Clifford, G. B. Preston, 1961-12-31 The material in this volume was presented in a second year graduate course at Tulane University during the academic year 1958 1959 The book aims at being largely self contained but it is assumed that the reader has some familiarity with sets mappings groups and lattices Only in Chapter 5 will more preliminary knowledge be required and even there the classical definitions and theorems on the matrix representations of algebras and groups are <u>Lectures in Semigroups</u> Mario Petrich,1977 Semigroups, Algebras and Operator Theory P G summarized Romeo, John. C Meakin, A R Rajan, 2015-07-06 This book discusses recent developments in semigroup theory and its applications in areas such as operator algebras operator approximations and category theory All contributing authors are eminent researchers in their respective fields from across the world Their papers presented at the 2014 International Conference on Semigroups Algebras and Operator Theory in Cochin India focus on recent developments in semigroup theory and operator algebras They highlight current research activities on the structure theory of semigroups as well as the role of semigroup theoretic approaches to other areas such as rings and algebras The deliberations and discussions at the conference point to future research directions in these areas This book presents 16 unpublished high quality and peer reviewed research papers on areas such as structure theory of semigroups decidability vs undecidability of word problems regular von Neumann algebras operator theory and operator approximations Interested researchers will find several avenues for exploring the connections between semigroup theory and the theory of operator algebras Monoids And Semigroups With Applications - Proceedings Of The Berkeley Workshop In Monoids John Rhodes, 1991-03-06 The purpose of the Berkeley Workshop on Monoids was to give expository talks by the most qualified experts in the emerging main areas of monoid and semigroup theory including applications to theoretical computer science This was supplemented with current research papers The topics covered in an accessible way for the mathematical and theoretical computer community were Kernels and expansions in semigroup theory Implicit operations Inverse monoids Varieties of semigroups and universal algebra Linear semigroups and monoids of Lie type Monoids acting on tress Synthesis theorem regular semigroups and applications Type II

conjecture Application to theoretical computer science and decision problems A Short Course on Operator **Semigroups** Klaus-Jochen Engel, Rainer Nagel, 2006-06-06 The book offers a direct and up to date introduction to the theory of one parameter semigroups of linear operators on Banach spaces The book is intended for students and researchers who KWIC Index for Numerical Algebra Alston Scott want to become acquainted with the concept of semigroups The g-theory of Finite Semigroups John Rhodes, Benjamin Steinberg, 2009-04-05 Discoveries in Householder.1972 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 g 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 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 Theory and Applications of Models of Computation T.V. Gopal, Gerhard Jäger, Silvia Steila, 2017-04-13 This book constitutes the refereed proceedings of the 14th Annual Conference on Theory and Applications of Models of Computation TAMC 2017 held in Bern Switzerland in April 2017 The 45 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 103 submissions The main themes of TAMC 2017 have been computability computer science logic complexity algorithms and models of computation and systems theory Interval Semigroups W. B. Vasantha Kandasamy, Florentin Smarandache, 2011 In this book for the first time the concept of interval semigroups using intervals of the form 0 a is defined Several types of interval semigroups are introduced and their properties are analyzed A special feature of this book is the wide range of examples and problems Semigroups E. S. Liapin, 1968

Refinement Monoids, Equidecomposability Types, and Boolean Inverse Semigroups Friedrich Wehrung, 2017-09-09 Adopting a new universal algebraic approach this book explores and consolidates the link between Tarski's classical theory of equidecomposability types monoids abstract measure theory in the spirit of Hans Dobbertin's work on monoid valued measures on Boolean algebras and the nonstable K theory of rings This is done via the study of a monoid invariant defined on Boolean inverse semigroups called the type monoid The new techniques contrast with the currently available topological approaches Many positive results but also many counterexamples are provided Nonnegative Matrices in the Mathematical Sciences Abraham Berman, Robert J. Plemmons, 2014-05-10 Nonnegative Matrices in the Mathematical Sciences provides information pertinent to the fundamental aspects of the theory of nonnegative matrices This book describes selected applications of the theory to numerical analysis probability economics and operations research Organized into 10 chapters this book begins with an overview of the properties of nonnegative matrices This text then examines the inverse positive matrices Other chapters consider the basic approaches to the study of nonnegative matrices namely geometrical and combinatorial This book discusses as well some useful ideas from the algebraic theory of semigroups and considers a canonical form for nonnegative idempotent matrices and special types of idempotent matrices. The final chapter deals with the linear complementary problem LCP This book is a valuable resource for mathematical economists mathematical programmers statisticians mathematicians and computer scientists Semigroups and Formal Languages Jorge M. Andre, 2007 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 Semigroups, Categories, and Partial Algebras P. G. Romeo, Mikhail V. Volkov, A. R. Rajan, 2021-03-26 This book is a collection of selected papers presented at the International Conference on Semigroups and Applications held at the Cochin University of Science and Technology India from December 9 12 2019 This book discusses the recent developments in semigroups theory category theory and the applications of these in various areas of research including structure theory of semigroups lattices rings and partial algebras This book presents chapters on ordering orders and quotient rings block groups and Hall's relations quotients of the Booleanization of inverse semigroup Markov chains through semigroup graph expansions polycyclic inverse monoids and Thompson group balanced category and bundle category This book will be of much value to researchers working in areas of semigroup and operator theory

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