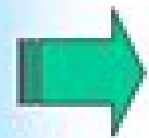


The membership problem in matrix semigroups

Given a finite set of matrices $G = \{M_1, M_2, \dots, M_k\}$ and a matrix M . Determine whether there exists a sequence of matrices $M_{i_1}, M_{i_2}, \dots, M_{i_l}$ from G such that $M_{i_1} \times M_{i_2} \times \dots \times M_{i_l} = M$



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

Jan Okniński



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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

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Probability Measures on Semigroups Göran Högnäs, Arunava Mukherjee, 2010-11-02 This second edition presents up to date material on the theory of weak convergence of convolution products of probability measures in semigroups the theory of random walks on semigroups and their applications to products of random matrices In addition this unique work examines the essentials of abstract semigroup theory and its application to concrete semigroups of matrices This substantially revised text includes exercises at various levels at the end of each section and includes the best available proofs on the most important theorems used in a book making it suitable for a one semester course on semigroups In addition it could also be used as a main text or supplementary material for courses focusing on probability on algebraic structures or weak convergence This book is ideally suited to graduate students in mathematics and students in other fields such as engineering and the sciences with an interest in probability Students in statistics using advanced probability will also find this book useful

Semigroups of Matrices Lawrence John Huber, 1962

Probability Measures on Semigroups: Convolution Products, Random Walks and Random Matrices Göran Högnäs, Arunava Mukherjee, 2013-03-09 A Scientific American article on chaos see Crutchfield et al 1986 illustrates a very persuasive example of recurrence A painting of Henri Poincaré or rather a digitized version of it is stretched and cut to produce a mildly distorted image of Poincaré The same procedure is applied to the distorted image and the process is repeated over and over again on the successively more and more blurred images After a dozen repetitions

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 Poincaré 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 example 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 asymptotics 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.

Lectures in Semigroups Mario Petrich, 1977

The Algebraic Theory of Semigroups, Volume I Alfred H. 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 summarized.

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.

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 trees; Synthesis theorem; regular semigroups and applications; Type II conjecture; Application to theoretical computer science and decision problems.

Semigroups, Algebras and Operator Theory P. G. 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

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