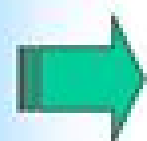


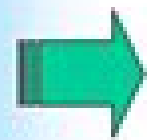
# *The membership problem in matrix semigroups*

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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

**E. S. Liapun**



## **Semigroups Of Matrices:**

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

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 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

**On Semigroups of Matrices in the  $(\max, +)$  Algebra** Institut National de Recherche en Informatique et en Automatique, Stéphane Gaubert, 1994 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      **Lectures in Semigroups** Mario Petrich,1977

*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      **Semigroups** E. S. Ljapin,1968      Handbook of Elasticity Solutions Mark L. Kachanov,B. Shafiro,Igor Tsukrov,2003-11-30 This Handbook is intended as a desk reference for researchers students and engineers working in various areas of solid mechanics and quantitative materials science It contains a broad range of elasticity solutions In particular it covers the following topics Basic equations in various coordinate systems Green's functions for isotropic and anisotropic solids Cracks in two and three dimensional solids Eshelby's problems and related results Stress concentrations at inhomogeneities Contact problems Thermoelasticity The solutions have been collected from a large number of monographs and research articles Some of the presented results were obtained only recently and are not easily available All solutions have been thoroughly checked and transformed to a userfriendly form      *Inequalities: Theory of Majorization and Its Applications* Albert W. Marshall,Ingram Olkin,Barry C. Arnold,2010-11-25 This book's first edition has been widely cited by researchers in diverse fields The following are excerpts from reviews *Inequalities Theory of Majorization and its Applications* merits strong praise It is innovative coherent well written and most importantly a pleasure to read This work is a valuable resource *Mathematical Reviews* The authors present an extremely rich collection of inequalities in a remarkably

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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

MOD Natural Neutrosophic Subset Semigroups W. B. Vasantha Kandasamy ,Ilantennal K,Florentin Smarandache,2016 In this book the authors introduce for the first time the MOD Natural Subset Semigroups They enjoy very many special properties They are only semigroups even under addition This book provides several open problems to the semigroup theorists

**Proceedings of the Seventh Annual ACM-SIAM Symposium on Discrete Algorithms** ,1996-01-01 This text covers the proceedings of the Seventh Annual ACM SIAM Symposium on Discrete Algorithms which was held in Atlanta Georgia in January 1996

**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  $0 \leq a \leq b$  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

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