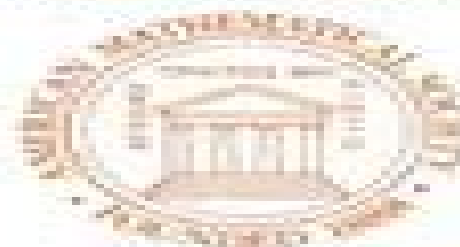


Number 377



**Mike Boyle, Brian Marcus,
and Paul Trow**

**Resolving maps and
the dimension group
for shifts of finite type**

Memoirs

of the American Mathematical Society

Providence • Rhode Island • USA

November 1987 • Volume 29 • Number 377 (57th yr of pub. members) • ISSN 0063-9926

Resolving Maps And The Dimension Group For Shifts Of Finite Type

IEEE Information Theory Society



Resolving Maps And The Dimension Group For Shifts Of Finite Type:

Resolving Maps and the Dimension Group for Shifts of Finite Type Mike Boyle, Brian Marcus, Paul Trow, 1987 We give several results on necessary and sufficient conditions for the existence of special classes of maps from one shift of finite type onto another of the same entropy The classes we study include eventual right closing maps common right closing extensions and stable right closing maps Some analogous results for sofic systems are also given The necessary and sufficient conditions are described algebraically in terms of the dimension group associated to a shift of finite type by W Krieger

Resolving Markov Chains onto Bernoulli Shifts via Positive Polynomials Brian Marcus, Selim Tuncel, 2001 The two parts of this monograph contain two separate but related papers The longer paper in Part A obtains necessary and sufficient conditions for several types of codings of Markov chains onto Bernoulli shifts It proceeds by replacing the defining stochastic matrix of each Markov chain by a matrix whose entries are polynomials with positive coefficients in several variables a Bernoulli shift is represented by a single polynomial with positive coefficients p This transforms jointly topological and measure theoretic coding problems into combinatorial ones In solving the combinatorial problems in Part A the work states and makes use of facts from Part B concerning p DEGREES n and its coefficients Part B contains the shorter paper on p DEGREES n and its coefficients and is independent

Geometric and Probabilistic Structures in Dynamics Keith Burns, Dmitry Dolgopyat, Ya. B. Pesin, 2008 This book presents a collection of articles that cover areas of mathematics related to dynamical systems The authors are well known experts who use geometric and probabilistic methods to study interesting problems in the theory of dynamical systems and its applications Some of the articles are surveys while others are original contributions The topics covered include Riemannian geometry models in mathematical physics and mathematical biology symbolic dynamics random and stochastic dynamics This book can be used by graduate students and researchers in dynamical systems and its applications

BOOK JACKET Different Aspects of Coding Theory Robert Calderbank, 1995 The symposia in applied mathematics have been held under the auspices of the American Mathematical Society and others since 1967 This book connects coding theory with actual applications in consumer electronics and with other areas of mathematics It covers in detail the mathematical foundations of digital data storage and makes connections to symbolic dynamics linear systems and finite automata It also explores the use of algebraic geometry within coding theory and examines links with finite geometry statistics and theoretical computer science

Combinatorial and Graph-Theoretical Problems in Linear Algebra Richard A. Brualdi, Shmuel Friedland, Victor Klee, 2012-12-06 This IMA Volume in Mathematics and its Applications COMBINATORIAL AND GRAPH THEORETICAL PROBLEMS IN LINEAR ALGEBRA is based on the proceedings of a workshop that was an integral part of the 1991-92 IMA program on Applied Linear Algebra We are grateful to Richard Brualdi George Cybenko Alan George Gene Golub Mitchell Luskin and Paul Van Dooren for planning and implementing the year long program We especially thank Richard Brualdi Shmuel Friedland and Victor Klee for organizing

this workshop and editing the proceedings The financial support of the National Science Foundation made the workshop possible A vner Friedman Willard Miller Jr PREFACE The 1991 1992 program of the Institute for Mathematics and its Applications IMA was Applied Linear Algebra As part of this program a workshop on Com binatorial and Graph theoretical Problems in Linear Algebra was held on November 11 15 1991 The purpose of the workshop was to bring together in an informal setting the diverse group of people who work on problems in linear algebra and matrix theory in which combinatorial or graph theoretic analysis is a major com ponent Many of the participants of the workshop enjoyed the hospitality of the IMA for the entire fall quarter in which the emphasis was discrete matrix analysis

Codes, Systems, and Graphical Models Brian Marcus, Joachim Rosenthal, 2012-12-06 Coding theory system theory and symbolic dynamics have much in common Among the central themes in each of these subjects are the construction of state space representations understanding of fundamental structural properties of sequence spaces construction of input output systems and understanding the special role played by algebraic structure A major new theme in this area of research is that of codes and systems based on graphical models This volume contains survey and research articles from leading researchers at the interface of these subjects

Encyclopaedia of Mathematics Michiel Hazewinkel, 2012-12-06 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

Bulletin of the American Mathematical Society ,1999

Symbolic Dynamics Bruce P. Kitchens, 2012-12-06 Nearly one hundred years ago Jacques Hadamard used infinite sequences of symbols to analyze the distribution of geodesics on certain surfaces That was the beginning of symbolic dynamics In the 1930 s and 40 s Arnold Hedlund and Marston Morse again used infinite sequences to investigate geodesics on surfaces of negative curvature They coined the term symbolic dynamics and began to study sequence spaces with the shift transformation as dynamical systems

In the 1940 s Claude Shannon used sequence spaces to describe information channels Since that time symbolic dynamics has been used in ergodic theory topological dynamics hyperbolic dynamics information theory and complex dynamics Symbolic dynamical systems with a finite memory are studied in this book They are the topological Markov shifts Each can be defined by transition rules and the rules can be summarized by a transition matrix The study naturally divides into two parts The first part is about topological Markov shifts where the alphabet is finite The second part is concerned with topological Markov shifts whose alphabet is countably infinite The techniques used in the two cases are quite different When the alphabet is finite most of the methods are combinatorial or algebraic When the alphabet is infinite the methods are much more analytic This book grew from notes for a graduate course taught at Wesleyan University in the fall of 1994 and is intended as a graduate text and as a reference book for mathematicians working in related fields

Textile Systems for Endomorphisms and Automorphisms of the Shift Masakazu Nasu, 1995 We introduce the notion of a textile system Using this we study the dynamical properties of endomorphisms and automorphisms of topological Markov shifts including one sided ones The dynamical properties of automorphisms of sofic systems are also studied

Bulletin (new Series) of the American Mathematical Society, 1999

An Introduction to Symbolic Dynamics and Coding Douglas Lind, Brian Marcus, 2021-01-21 Symbolic dynamics is a mature yet rapidly developing area of dynamical systems It has established strong connections with many areas including linear algebra graph theory probability group theory and the theory of computation as well as data storage statistical mechanics and C algebras This Second Edition maintains the introductory character of the original 1995 edition as a general textbook on symbolic dynamics and its applications to coding It is written at an elementary level and aimed at students well established researchers and experts in mathematics electrical engineering and computer science Topics are carefully developed and motivated with many illustrative examples There are more than 500 exercises to test the reader's understanding In addition to a chapter in the First Edition on advanced topics and a comprehensive bibliography the Second Edition includes a detailed Addendum with companion bibliography describing major developments and new research directions since publication of the First Edition

Pure Mathematics and Applications, 1997

Dynamical Systems James C. Alexander, 2006-11-14 The papers in this volume reflect the richness and diversity of the subject of dynamics Some are lectures given at the three conferences Ergodic Theory and Topological Dynamics Symbolic Dynamics and Coding Theory and Smooth Dynamics Dynamics and Applied Dynamics held in Maryland between October 1986 and March 1987 some are work which was in progress during the Special Year and some are work which was done because of questions and problems raised at the conferences In addition a paper of John Milnor and William Thurston versions of which had been available as notes but not yet published is included

Real and Complex Dynamical Systems B. Branner, Poul Hjorth, 2013-03-14 This volume contains edited versions of 11 contributions given by main speakers at the NATO Advanced Study Institute on Real and Complex Dynamical Systems in Hillerød Denmark June 20th July 2nd 1993 The

vision of the institute was to illustrate the interplay between two important fields of Mathematics Real Dynamical Systems and Complex Dynamical Systems The interaction between these two fields has been growing over the years Problems in Real Dynamical Systems have recently been solved using complex tools in the real or by extension to the complex In return problems in Complex Dynamical Systems have been settled using results from Real Dynamical Systems The programme of the institute was to examine the state of the art of central parts of both Real and Complex Dynamical Systems to reinforce contact between the two aspects of the theory and to make recent progress in each accessible to a larger group of mathematicians

Dimensions and C^* -Algebras Edward G. Effros, 1981 Discusses elementary algebras and C^* -DEGREES algebras namely those which are direct limits of complex semi simple al

Elements of Topological Dynamics J. de Vries, 2013-04-17 This book is designed as an introduction into what I call abstract Topological Dynamics TO the study of topological transformation groups with respect to problems that can be traced back to the qualitative theory of differential equa is in the tradition of the books GH and EW The title tions So this book Elements rather than Introduction does not mean that this book should be compared either in scope or in intended impact with the Elements of Euclid or Bourbaki Instead it reflects the choice and organisation of the material in this book elementary and basic but sufficient to understand recent research papers in this field There are still many challenging problems waiting for a solution and especially among general topologists there is a growing interest in this direction However the technical inaccessability of many research papers makes it almost impossible for an outsider to understand what is going on To a large extent this inaccessability is caused by the lack of a good and systematic exposition of the fundamental methods and techniques of abstract TO This book is an attempt to fill this gap The guiding principle for the organization of the material in this book has been the exposition of methods and techniques rather than a discussion of the leading problems and their solutions though the latter are certainly not neglected they are used as a motivation wherever possible

Algebraic Ideas in Ergodic Theory Klaus Schmidt, **Israel Journal of Mathematics**, 1990

IEEE International Symposium on Information Theory, 1991 IEEE Information Theory Society, 1991

Resolving Maps And The Dimension Group For Shifts Of Finite Type Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Resolving Maps And The Dimension Group For Shifts Of Finite Type**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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