Review Article

Junying Guo and Xiaojiang Guo*

Semiprimeness of semigroup algebras

Abstract: Abundant semigroups originate from p.p. rings and are generalizations of regular semigroups. The main aim of this paper is to study the primeness and the primitivity of abundant semigroup algebras. We introduce and study $\mathcal{D}^*$-graphs and Fountain matrices of a semigroup. Based on $\mathcal{D}^*$-graphs and Fountain matrices, we determine when a contracted semigroup algebra of a primitive abundant semigroup is prime (respectively, semiprime, semiprimitive, or primitive). It is well known that for any algebra $\mathcal{A}$ with unity, $\mathcal{A}$ is primitive (prime) if and only if so is $M_n(\mathcal{A})$. Our results can be viewed as some kind of generalizations of such a known result. In addition, it is proved that any contracted semigroup algebra of a locally ample semigroup whose set of idempotents is locally finite (respectively, locally pseudofinite and satisfying the regularity condition) is isomorphic to some contracted semigroup algebra of primitive abundant semigroups. Moreover, we obtain sufficient and necessary conditions for these classes of contracted semigroup algebras to be prime (respectively, semiprime, semiprimitive, or primitive). Finally, the structure of simple contracted semigroup algebras of idempotent-connected abundant semigroups is established. Our results enrich and extend the related results on regular semigroup algebras.

Keywords: semigroup algebra, semiprimitive algebra, semiprime algebra, locally ample semigroup, primitive abundant semigroup, complete quiver

MSC 2020: 20M25, 16S36

1 Introduction

The primitivity and the primeness are important properties in the theory of algebras. Let $\mathcal{A}$ be an algebra over a field K. It is well known that if $\mathcal{A}$ is semisimple as a right $\mathcal{A}$-module, then it must be semiprimitive (semiprime), but not every semiprimitive (semiprime) algebra is semisimple. In particular, if $\mathcal{A}$ is a finite dimensional algebra over a field, then $\mathcal{A}$ is semisimple if and only if it is semiprimitive (semiprime).

It is well known that the class of semiprimitive semigroup algebras has contributed to solutions of various difficult problems. For example, in [1], a semiprimitive semigroup algebra was used to answer a question of Kegel [2]: whether every ring must be nil if it is the sum of two nil or locally nilpotent subrings? The semiprimitivity of inverse semigroup algebras over a field has been investigated (see [3]). It is shown that a finite inverse semigroup algebra over a field is semisimple if and only if the group algebra of each of its maximal subgroups is semisimple (see [4,5]). In [6], Domanov proved that if F is a field and S is an inverse semigroup such that $F[G]$ is semiprimitive for each maximal subgroup G of S, then $F[S]$ is semiprimitive. This result is also true by replacing F by an arbitrary commutative ring R with unity and replacing $F_0[S]$ by $R_0[S]$ if we let S have a zero element [7, Theorem 4.2]. These results have been generalized to rings faithfully graded by inverse semigroups (see [8–10] and [11, Section 4.3]). Recently, Ji [12], and Ji and Luo [13]

* **Corresponding author: Xiaojiang Guo,** School of Mathematics and Statistics, Jiangxi Normal University, Nanchang 330022, China, e-mail: xjguo@jxnu.edu.cn
Junying Guo: College of Science and Technology, Jiangxi Normal University, Nanchang 330024, China, e-mail: 651945171@qq.com

Semigroup Algebras

Harold G. Dales,Anthony To-Ming Lau,Dona Strauss

Semigroup Algebras:

   Semigroup Algebras Okninski,2020-08-26 Gathers and unifies the results of the theory of noncommutative semigroup rings primarily drawing on the literature of the last 10 years and including several new results Okninski Warsaw U Poland restricts coverage to the ring theoretical properties for which a systematic treatment is current   *Banach Algebras on Semigroups and on Their Compactifications* Harold G. Dales,Anthony To-Ming Lau,Dona Strauss,2010 Volume 205 number 966 end of volume   **Noetherian Semigroup Algebras** Eric Jespers,Jan Okninski,2007-03-15 Here is a comprehensive treatment of the main results and methods of the theory of Noetherian semigroup algebras These results are applied and illustrated in the context of important classes of algebras that arise in a variety of areas and have recently been intensively studied The focus is on the interplay between combinatorics and algebraic structure Mathematical physicists will find this work interesting for its attention to applications of the Yang Baxter equation   Groups, Rings, Lie and Hopf Algebras ,2003-03-31 The volume is almost entirely composed of the research and expository papers by the participants of the International Workshop Groups Rings Lie and Hopf Algebras which was held at the Memorial University of Newfoundland St John s NF Canada All four areas from the title of the workshop are covered In addition some chapters touch upon the topics which belong to two or more areas at the same time Audience The readership targeted includes researchers graduate and senior undergraduate students in mathematics and its applications   Operators, Semigroups, Algebras and Function Theory Yemon Choi,Matthew Daws,Gordon Blower,2023-12-06 This volume collects contributions from participants in the IWOTA conference held virtually at Lancaster UK originally scheduled in 2020 but postponed to August 2021 It includes both survey articles and original research papers covering some of the main themes of the meeting   **Group and Semigroup Rings** G. Karpilovsky,2011-09-22 A broad range of topics is covered here including commutative monoid rings the Jacobson radical of semigroup rings blocks of modular group algebras nilpotency index of the radical of group algebras the isomorphism problem for group rings inverse semigroup algebras and the Picard group of an abelian group ring The survey lectures provide an up to date account of the current state of the subject and form a comprehensive introduction for intending researchers   **Semigroups of Matrices** Jan Okni?ski,1998 This book is concerned with the structure of linear semigroups that is subsemigroups of the multiplicative semigroup Mn K of n 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   *Interactions Between Ring Theory and Representations of Algebras* Freddy

Van Oystaeyen,Manolo Saorin,2000-04-05 This work is based on a set of lectures and invited papers presented at a meeting in Murcia Spain organized by the European Commission s Training and Mobility of Researchers TMR Programme It contains information on the structure of representation theory of groups and algebras and on general ring theoretic methods related to the theory **Cardinal Invariants on Boolean Algebras** J. Donald Monk,2010-03-25 This text covers cardinal number valued functions defined for any Boolean algebra such as cellularity It explores the behavior of these functions under algebraic operations such as products free products ultraproducts and their relationships to each other **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 Cal ifornia State University on April 10 12 1986 The conference was spon sored 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 semi groups and related areas and that the exchange of ideas would stimulate research in the subject even further These hopes were realized beyond all expectations **Groups, Rings, Lie and Hopf Algebras** Y. Bahturin,2013-12-01 The volume is almost entirely composed of the research and expository papers by the participants of the International Workshop Groups Rings Lie and Hopf Algebras which was held at the Memorial University of Newfoundland St John s NF Canada All four areas from the title of the workshop are covered In addition some chapters touch upon the topics which belong to two or more areas at the same time Audience The readership targeted includes researchers graduate and senior undergraduate students in mathematics and its applications 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 *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 **Ring Constructions and Applications** Andrei V. Kelarev,2002 This book contains the definitions of several ring constructions used in various applications The concept of a groupoid graded ring includes many of these constructions as special cases and makes it possible to unify the exposition Recent research results on groupoid graded rings and more specialized constructions are presented In addition there is a chapter containing open problems currently considered in the literature Ring Constructions and Applications can serve as an excellent introduction for graduate students to many ring constructions as well as to essential basic concepts of group semigroup and ring theories used in proofs **Multiplicative Ideal Theory in Commutative Algebra** James W. Brewer,Sarah Glaz,William Heinzer,Bruce Olberding,2006-12-15 For over forty years Robert Gilmer s numerous articles and books have had a tremendous impact on research in commutative algebra It is not an exaggeration to say that most articles published today in non Noetherian ring theory and some in Noetherian ring theory as well originated in a topic that Gilmer either initiated or enriched by his work This volume a tribute to his work consists of twenty four articles authored by Robert Gilmer s most prominent students and followers These articles combine surveys of past work by Gilmer and others recent results which have never before seen print open problems and extensive bibliographies In a concluding article Robert Gilmer points out directions for future research highlighting the open problems in the areas he considers of importance Robert Gilmer s article is followed by the complete list of his published works his mathematical genealogical tree information on the writing of his four books and reminiscences about Robert Gilmer s contributions to the stimulating research environment in commutative algebra at Florida State in the middle 1960s The entire collection provides an in depth overview of the topics of research in a significant and large area of commutative algebra **Algebra - Representation Theory** Klaus W. Roggenkamp,Mirela Stefanescu,2001-08-31 Over the last three decades representation theory of groups Lie algebras and associative algebras has undergone a rapid development through the powerful tool of almost split sequences and the Auslander Reiten quiver Further insight into the homology of finite groups has illuminated their representation theory The study of Hopf algebras and non commutative geometry is another new branch of representation theory which pushes the classical theory further All this can only be seen in connection with an

understanding of the structure of special classes of rings The aim of this book is to introduce the reader to some modern developments in Lie algebras quantum groups Hopf algebras and algebraic groups non commutative algebraic geometry representation theory of finite groups and cohomology the structure of special classes of rings   *Semigroups and Automata* Uno Kaljulaid,2006 This volume provides a selection of previously published papers and manuscripts of Uno Kaljulaid an eminent Estonian algebraist of the last century The central part of the book is the English translation of Kaljulaid s 1979 Candidate thesis which originally was typewritten in Russian and manufactured in not so many copies The thesis is devoted to representation theory in the spirit of his thesis advisor B I Plotkin representations of semigroups and algebras especially extension to this situation and application of the notion of triangular product of representations for groups introduced by Plotkin Through representation theory Kaljulaid became also interested in automata theory which at a later phase became his main area of interest Another field of research concerns combinatorics Besides being an outstanding and most dedicated mathematician Uno Kaljulaid was also very much interested in the history of mathematics In particular he took a vivid interest in the life and work of the great 19th century Dorpat Tartu algebraist Th Molien Kaljulaid was also very interested in teaching and exposition or popularization of mathematics Some of his more popular scientific papers were published in an Estonian language journal Matemaatika ja Kaasaeg Mathematics and Our Age Among them there is a whole series of papers about algebraic matters culminating in a brilliant elementary although partly rather philosophical essay devoted to Galois theory Another such series is his excellent essay of Diophantine Geometry in various installments followed by his loge to another of his teachers Yu I Manin It is believed that the inclusion of these papers here will make it more interesting for beginners and perhaps even contribute to attracting young people to mathematics   *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 Mn K of n 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

Symbolic Computation: Solving Equations in Algebra, Geometry, and Engineering Edward L. Green,2001 This volume presents the proceedings from the research conference Symbolic Computation Solving Equations in Algebra Analysis and Engineering held at Mount Holyoke College USA It provides an overview of contemporary research in symbolic computation as it applies to the solution of polynomial systems The conference brought together pure and applied mathematicians computer scientists and engineers who use symbolic computation to solve systems of equations or who develop the

theoretical background and tools needed for this purpose Within this general framework the conference focused on several themes systems of polynomials systems of differential equations noncommutative systems and applications   Theory of Radicals L. Márki,R. Wiegandt,2014-05-21 Radicals arose originally from structural investigations in rings but later on they infiltrated into various branches of algebra as well as into topology and relational structures This volume is the result of a conference attended by mathematicians from all five continents and thus represents the current state of research in the area

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