

## Jordan Generalized Derivations on $\sigma$ -prime Rings

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### Abstract

Let  $R$  be a 2-torsion free  $\sigma$ -prime ring with involution  $\sigma$  and let  $U$  be a nonzero  $\sigma$ -Lie ideal of  $R$  such that  $u^2 \in U$  for all  $u \in U$ . The main goal of this work is to prove that if  $F$  is a Jordan generalized derivation on  $U$ , then  $F$  is a generalized derivation on  $U$ .

**Mathematics Subject Classification:** 16W25, 16W20, 16U80.

**Keywords:** Involutions,  $\sigma$ -Prime rings,  $\sigma$ -Lie ideals, Jordan generalized derivations, Generalized derivations.

## 1 Preliminaries

Throughout the present paper  $R$  will denote an associative ring with center  $Z(R)$ . A ring  $R$  with involution  $\sigma$  is said to be  $\sigma$ -prime if  $aRb = aR\sigma(b) = (0)$  implies that  $a = 0$  or  $b = 0$ . Recall that a ring  $R$  is prime if  $aRb = 0$  implies that  $a = 0$  or  $b = 0$ . It is worthwhile to note that every prime ring having an involution  $\sigma$  is  $\sigma$ -prime but the converse is in general not true. An ideal  $I$  of  $R$  is called a  $\sigma$ -ideal if  $I$  is invariant under  $\sigma$ , i.e.  $\sigma(I) = I$ . In all that follows  $Sa_\sigma(R)$  will denote the set of symmetric and skew symmetric elements of  $R$  i.e.  $Sa_\sigma(R) = \{x \in R / \sigma(x) = \pm x\}$ . For any  $x, y$  in  $R$  we write  $[x, y]$  for the commutator  $xy - yx$  and we will use the following basic commutator identities:

$$[xy, z] = x[y, z] + [x, z]y \quad \text{and} \quad [x, yz] = y[x, z] + [x, y]z.$$

A Lie ideal of  $R$  is an additive subgroup of  $R$  satisfying  $[R, U] \subset U$ . Moreover if  $\sigma(U) = U$ , then  $U$  is called a  $\sigma$ -Lie ideal. An additive mapping  $d : R \rightarrow R$  is called a derivation ( resp. Jordan derivation) if  $d(xy) = d(x)y + xd(y)$ , (resp.  $d(x^2) = d(x)x + xd(x)$ ) for all  $x, y \in R$ . Clearly, every derivation is a Jordan derivation but the converse need not be true in general.

# Jordan Generalized Derivations On Prime Rings

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## **Jordan Generalized Derivations On Prime Rings:**

*Algebra and Related Topics with Applications* Mohammad Ashraf, Asma Ali, Vincenzo De Filippis, 2022-11-30 This proceedings is a collection of research papers on algebra and related topics most of which were presented at the International Conference on Algebra and Related Topics with Applications ICARTA 19 held at the Department of Mathematics Aligarh Muslim University Aligarh India from 17-19 December 2019. It covers a wide range of topics on ring theory, coding theory, cryptography, and graph theory. In addition to highlighting the latest research being done in algebra, the book also addresses the abundant topics of algebra, particularly semigroups, groups, derivations in rings, rings and modules, group rings, matrix algebra, triangular algebra, polynomial rings, and lattice theory. Apart from these topics, the book also discusses applications in cryptology, coding theory, and graph theory.

**Differential Identities in Rings and Algebras and their Applications** Shakir Ali, Mohammad Ashraf, Vincenzo De Filippis, Lahcen Oukhtite, Nadeem Ur Rehman, 2025-05-26 The theory of differential identities in associative rings and algebras is the basis of this monograph. Informally, an identical relation involving arbitrary elements in the underlying rings or algebras along with the unknown differential function is called a differential identity in a ring or algebra. Invariant theory, non-commutative geometry, mathematical physics, and the theory of rings and algebras are just a few of the fields where this abstract theory has proved to be an effective instrument for solving a wide range of challenging issues, and as the twenty-first century has arrived, the theory of differential identities has found enormous applications in resolving a number of unresolved problems in the theory of rings. This volume summarizes the findings and approaches that have significantly advanced the field during the previous three decades. The first chapter provides a brief introduction to the topic. The following three chapters cover the various kinds of derivations in rings and algebras, as well as the interactions between the structure of some classes of rings with involution and the behavior of the underlying derivations, generalized derivations, skew derivations, and  $b$ -generalized derivations, as well as their corresponding properties. Chapter 5 explores the characterization of several kinds of higher derivable mappings and the structure of Lie and Jordan type higher derivations. Although the book contains numerous applications of the conclusions presented in these chapters, the last chapter mostly focuses on the application of derivations. This research monograph is useful for researchers working in the area of differential identities in rings and algebras. It provides a comprehensive and authoritative account of research findings.

**Algebra and its Applications** Afzal Beg, 2011-05-02 Algebra has been developing through the interaction between the investigation of its own algebraic structures and its applications to different areas of Mathematics and other branches of Science. This informative research volume consists of survey and original articles by reputed algebraists, which are refereed by the experts in the relevant fields. The survey articles provide an excellent overview of the various areas of research in Algebra. The original articles by reputed algebraists in Ring Theory, Module Theory, Semigroup Theory, Lattice Theory, Category Theory, Derivations, Hyper and Fuzzy Structures, etc. exhibit new ideas.

tools needed for the successful applications and discuss new techniques and methodologies for current research in different branches of Algebra Over 300 bibliographic references make Algebra and its Applications Recent Developments an indispensable resource book for the beginners and advanced experts in Algebra Bulletin of the Korean Mathematical Society ,2009 ,2007 **Demonstratio mathematica** ,2008 Rendiconti del Seminario matematico della Università di Padova Università di Padova. Seminario matematico,2011 Siberian Mathematical Journal ,2007 **Algebra and Differential Equations with Applications** Mohammad Ashraf,Jehad Al Jaraden,Lahcen Oukhtite,El Hassan El Kinani,2026-01-01 This book contains select chapters of proceedings presented at the Second International Conference on Mathematics and its Applications held in Antalya Turkey from 9 to 13 November 2023 Contributors are all active academicians and researchers in their respective fields It includes chapters on algebra ring theory algebraic coding theory algebraic graph theory and differential equations The book covers recent research in the boundaries of several fields of mathematics particularly algebra and differential equations with applications It will be useful not only to experts but also to the beginners of research in algebras differential equations and related topics Mathematical Reviews ,2007 **Doga. Türk matematik dergisi** ,2005 **Tamkang Journal of Mathematics** ,2001 **Indian Science Abstracts** ,2006-07 International Journal of Mathematics, Game Theory, and Algebra ,2002 Prime and Semiprime Rings Endowed with Some Kinds of Mappings M. S. TAMMAM El-Saiyad,M. N. Daif,I. R. Hentzel,2010-10 This advanced algebra book deals with derivations generalized derivations centralizers and theta centralizers It studies prime and semiprime rings It has seven chapters Chapter one gives the preliminaries on derivations generalized derivations centralizers and theta centralizers Chapter two presents additivity results for multiplicative generalized derivations and multiplicative left centralizers Chapter three extends Posner s first Theorem with generalized derivations on Lie ideals in prime rings Chapter four presents a proof which shows that in a semiprime ring under some conditions any Jordan generalized derivation must be a generalized derivation We include identities which force additive mappings to be generalized derivations and Jordan generalized derivation where is the involution mapping Chapter five characterizes rings with a Jordan centralizer Chapter six displays the identities which force additive mappings to be theta centralizers Chapter seven deals with free action mappings and the dependent elements related to those mappings It also gives a generalization of the definition of dependent elements and free actions **Turkish Journal of Mathematics** ,2006 **The Punjab University Journal of Mathematics** ,2008 **On Higher Derivations and Higher Homomorphisms of Prime Rings** Anwar Khaleel Faraj,Abdulrahman H. Majeed,Mohammed S. Ismael,2013 This work consists of three chapters Chapter one contains fundamental concepts which are basic in our study we extend N M Shammu s theorem to higher N derivation by giving the definition of higher N derivation and we have answered to the question of Haetinger and Cortes whether the result of Ferro and Haetinger is also true for Jordan generalized triple higher derivation Chapter two is concerned with higher U R derivation and generalized

higher U R derivation We extend and generalized R Awtar s theorem of derivation of prime ring by giving the concepts of U R derivation and generalized U R derivation Then we extend and generalized this results to higher U R derivation and generalized U R higher derivation by giving the corresponding definitions Chapter three concerned with Jordan higher homomorphism and genraralized Jordan higher homomorphism We extend Bresar s result of Jordan triple homomorphism of prime ring by giving the definitions of Jordan Jordan triple higher homomorphism and we have introduced the definitions of generalized Jordan Jordan triple higher homomorphism to study these concepts onto 2 torsion free prime Nova Journal of Algebra and Geometry ,1992 Bulletin of the American Mathematical Society American Mathematical Society,1961

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