

Jordan Generalized Derivations On Prime Rings

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Jordan Generalized Derivations On Prime

generalized Jordan right derivations on prime and semiprime π -rings with their mathematical simulation. We mainly focused on the characterizations of 2 free prime and semiprime π -rings by using Jordan Right Derivations. Important propositions and theorems related to generalized Jordan right derivation on prime and semiprime π -ring

Generalized Jordan Right Derivations on Prime and ...

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Let R be a 2-torsion free prime ring with center $Z(R)$ and a nonzero Jordan ideal J . In this paper, our main objective is to prove that: If $(F: R \rightarrow R)$ is a generalized derivation associated with a derivation d of R such that $([F(u), u]^k) \in Z(R)$ for all $(u \in J)$ and a fixed integer $(k \geq 1)$, then either R is commutative or there exists some $(a \in C)$ such that $(F(x) = ax)$ for all ...

On generalized derivations and Jordan ideals of prime ...

Jing and Lu considered generalized Jordan derivations of prime rings and standard operator algebras. Their results were extended to semiprime rings by Vukman who proved that every generalized...


Generalized Jordan derivations on prime rings and standard ...

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A Note on Generalized Jordan $*-Derivations$ on Prime ...**

More precisely, we prove a number of commutativity theorems with generalized (θ, ϕ) -derivations that act on Jordan ideals of prime rings.

Generalized (α, β) -derivations on Jordan ideals in $*$ -prime ...

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On Generalized Jordan Triple -Higher Derivations in Prime ...

On Jordan and Jordan*-generalized derivations¹⁴⁸⁹ An additive mapping $D: R \rightarrow R$, where R is an arbitrary ring, is called a Jordan triple derivation in case $D(xy) = D(x)y + xD(y) + xyD(x)$ holds for all pairs $x, y \in R$. Of course any derivation is a Jordan triple derivation.

On Jordan and Jordan*-Generalized Derivations in Semiprime ...

An additive mapping $F:R \rightarrow R$ is said to be generalized Jordan derivation if there exists a Jordan derivation $d:R \rightarrow R$ such that $F(x^2) = F(x)x + xd(x)$ for all $x \in R$. In [1], Ashraf and the first author showed that in a 2-torsion free ring, which has a commutator nonzero divisor, every generalized Jordan derivation on R is generalized derivation.

On generalized Jordan *-derivation in rings - ScienceDirect

derivations in prime rings, Comm. Algebra, 32, (2004), 2977 ... we prove that every generalized Jordan left derivation on a 2-torsion free *-prime ring with involution is a generalized left ...

(PDF) Jordan derivations on rings and semirings II

for all $A \in \mathcal{H}$. Then D is of the form $D(A) = AB - BA^*$ for all $A \in \mathcal{H}$ and some fixed $B \in \mathcal{B}(\mathcal{H})$, which means that D is Jordan *-derivation. Keywords: prime ring ; semiprime ring ; standard operator algebra ; Jordan *-derivation ; Jordan triple *-derivation ; 16N60 ; 16W10 ; 46K15 ; 16W25. Export References.

On certain functional equations related to Jordan ...

We prove that every Jordan k -derivation of a 2-torsion free prime Γ -ring (in the sense of Nobusawa) is a k -derivation. ... The concepts of generalized higher derivations, Jordan generalized ...

(PDF) On Jordan k-derivations of 2-torsion free prime Γ N ...

[14] W. Jing, S. Lu: Generalized Jordan derivations on prime rings and standard operator algebras. Taiwanese J. Math. 7 (4) (2003) 605{613. [15] Y. S. Jung: Generalized Jordan triple higher derivations on prime rings.

Generalized Higher Derivations on Lie Ideals of Triangular ...

A family $F = \{f_n\}$ $n \in \mathbb{N}$ of additive maps $f_n: R \rightarrow R$ is said to be generalized (σ, τ) -higher derivation (resp. generalized Jordan (σ, τ) -higher derivation) of R if there exists a (σ, τ) -higher derivation $D = \{d_n\}$ $n \in \mathbb{N}$ of R such that $f_0 = I_R$ and (resp. holds for all $a, b \in R$ and for each $n \in \mathbb{N}$).

Generalized (σ, τ) higher derivations in prime rings

It is obvious to see that every derivation is a Jordan derivation and is a Jordan triple derivation but the converse is in general not true. A classical result of Herstein [1] asserts that any Jordan derivation of a prime ring with characteristic different from 2 is a derivation.

Generalized Jordan triple derivations associated with ...

PunjabUniversity JournalofMathematics(ISSN1016-2526) Vol. 40(2008)pp. 97-101 On Jordan k -Derivations of 2-Torsion Free Prime n -Rings SujoyChakraborty DepartmentofMathematics

On Jordan k -Derivations of 2-Torsion Free Prime -Rings

It is obvious that every generalized derivation is a generalized Jordan derivation and every derivation is a Jordan derivation. But the converse is in general not true. Herstein showed that every Jordan derivation from a 2-torsion free prime ring into itself is a derivation.

GENERALIZED JORDAN DERIVATIONS ON SEMIPRIME RINGS

In 1957, Herstein proved that, if R is a prime ring of characteristic not 2, then every Jordan derivation of R is a derivation, see. We refer the reader to the references given in for more related results. In a recent paper the author and Lin studied a slightly generalized denition concerning (Jordan) derivations.

JORDAN σ -DERIVATIONS OF PRIME RINGS

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In the present thesis our objective is to study the results obtained by various authors concerning, derivations, semiderivation, (σ, τ) -derivation, Jordan (σ, τ) -derivations, left derivation, Jordan derivation and generalized Jordan derivations of prime and semiprime rings.

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