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4.2 Jordan Decomposition

Mod-01 Lec-15 Linear response theory (Part 9) Jordan Generalized Derivations On Prime

It is shown that, in case R as a prime $*$ -ring with $\text{char}(R) = 2$, F is of the form. $F(x) = qx * + D(x)$ for any $x \in R$. In the spirit of this result, we discuss the.

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be a generalized Jordan derivation i f there exists a derivation $\delta: R \rightarrow R$ such that $\delta(\delta(x)yx) = \delta(x)\delta(y)x + \delta(y)\delta(x)y$ for all $x, y \in R$, $\delta \neq 0$.

(PDF) Generalized Jordan Right Derivations on Prime and ...

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 ...

δ be a generalized derivation of a 2-torsion free prime ring R together with a derivation d : In this paper, we show that a nonzero Jordan ideal J of R contains a nonzero ideal of R .

On generalized derivations and Jordan ideals of prime rings


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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 $x \in R$, which extends a result of Soufi and Aboubakr (Turk. J. Math. 38:233–239, 2014, Theorem 3.2).

On generalized derivations and Jordan ideals of prime ...

Let R be a 2-torsion free prime ring with center $Z(R)$, J be a nonzero Jordan ideal also a subring of R , and F be a generalized derivation with associated derivation d .

Generalized (α, β) -derivations on Jordan ideals in \ast -prime ...

Let  $\text{height}="11.3125" \text{version}="1.1" \text{viewBox}="0 0 11.075 11.3125" \text{width}="11.075" \text{xlink}="http://www ...$

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

$\delta(a, b, c) \times \beta(a, b, c) + \beta(a, b, c) \times \delta(a, b, c) = 0$. Proof. Let $v = f(abcxcba + cbaxabc)$, then $0 = v - v = f((abc) \times (cba) + (cba) \times (abc)) - f(a(bcxcba) + c(baxabc))$. By the definition of the generalized Jordan triple derivation f associated with a Hochschild 2-cocycle α and by Lemma 1, we get.

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Generalized Jordan triple derivations associated with ...

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

Generalized (σ, τ) higher derivations in prime rings

Jordan ideals and generalized derivations. Theorem 1. Let R be a 2-torsion free prime ring and J a nonzero Jordan ideal of R . If R admits a generalized derivation F associated with a nonzero derivation d satisfying $F(xy) - xy \in Z(R)$ for all $x, y \in J$, then R is commutative.

Commutativity theorems for prime rings with generalized ...

JORDAN DERIVATIONS OF PRIME RINGS I. N. HERSTEIN 1. Given any associative ring A one can construct from its operations and elements a new ring, the Jordan ring of A , by defining the product in this ring to be $a \circ b = ab + ba$ for all $a, b \in A$, where the product ab signifies the product of a and b in the associative ring A .

JORDAN DERIVATIONS OF PRIME RINGS I

It is shown that any generalized Jordan (triple-)derivation on a 2-torsion free semiprime ring is a generalized derivation and that any generalized Jordan higher

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derivation on a 2-torsion free semiprime ring is a generalized higher derivation. Then we give several conditions which enable some generalized Jordan derivations on prime rings to degenerate left or right multipliers.

Generalized Jordan Derivations on Semiprime Rings and Its ...

The purpose of this paper is to study derivations satisfying certain differential identities on Jordan ideals of prime rings. Some well known results characterizing commutativity of prime rings by derivations have been generalized by using Jordan ideals. Moreover, we provide examples to show that our results cannot be extended to semi-prime rings.

Derivations and Jordan ideals in prime rings - ScienceDirect

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Jordan Generalized Reverse Derivations and Left ...

Ceven Y. Jordan left derivations on completely prime gamma rings. C.U.

Fen-Edebiyat Fakultesi Fen Bilimleri Dergisi. 2002; 23:39-43. Faraj AK, Haetinger

CMajeed AH. Generalized higher (U, R)-derivations. JP J Algebra. 2010; 16

(2):119-142. Halder AK, Paul AC. Jordan left derivations on Lie ideals of prime

Γ -rings. Punjab University J Math.

Generalized higher (U,M)-derivations in prime Γ -Rings

In this paper, we prove that if G is a Jordan u -generalized reverse derivation of a semi prime ring R of char. $\neq 2$, then G is a u -generalized reverse derivation.

Similarly, we show that if G is a Jordan u^* -generalized reverse derivation of a semi prime ring R of char. $\neq 2$, then G is a u^* -generalized reverse derivation. We also prove that the commutativity of R if $G([x,y]) = 0$.

Jordan u -Generalized Reverse Derivations on Semiprime Rings

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generalized derivations and generalized Jordan derivations have been systematically studied. 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 [3] showed that every Jordan derivation from a 2-torsion free prime ring

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