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*presupposition is that 'It's God \u0026amp;
whatever He does is right.'" Jordan*

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~~Relational Frame Theory: Past,~~

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~~Prime Rings~~ Present, and Future, SQAB Prof. N
Mukunda : Lecture 4 : Classical
Mechanics

Perturbation methods for nonlinear
PDEs (Lecture - 04) by Vishal Vasani

Generalized Kepler Problems - Guowu
Meng *Emergence of Riemannian
structure from noncommutative*

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differentials, Shahn Majid

Wheel of Time Fal Dara SET

PHOTOS4.2 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

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form. $F(x) = qx^n + D(x)$ for any $x \in R$. In the spirit of this result, we discuss the celebrated Posner's ...

A Note on Generalized Jordan
\$*\$-Derivations on Prime ...
PDF | In this study , we define the
concepts of a generalized higher bi-

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PRIME ...

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be a generalized Jordan derivation if
there exists a derivation d such
that $d(xy) = d(x)y + xd(y)$ for all x, y .

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

Jing and Lu considered generalized

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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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Let R 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

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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).

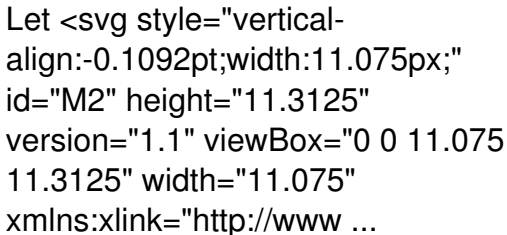
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On generalized derivations and Jordan
ideals of prime ...

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 .

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

Let  `<svg style="vertical-align:-0.1092pt;width:11.075px;" id="M2" height="11.3125" version="1.1" viewBox="0 0 11.075 11.3125" width="11.075" xmlns:xlink="http://www ...`

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

? (a,b,c) x? (a,b,c)+ ? (a,b,c) x? (a,
b, c)=0. Proof. Let $v = f ($
 $abcxcba+cbaxabc)$, then $0= v ? v = f ($
 $(abc) x (cba)+ (cba) x (abc))? f (a ($
 $bcxcb) a + c (baxab) c)$. By the

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definition of the generalized Jordan triple derivation f associated with a Hochschild 2-cocycle α and by Lemma 1, we get.

Generalized Jordan triple derivations associated with ...

A family $F = \{f_n\}_{n \in \mathbb{N}}$ of additive

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mappings $f: R \rightarrow R$ 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, $f(0) = 1_R$ and (resp. holds for all $a, b \in U$ and for each $n \in \mathbb{N}$).

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Generalized (α, β) 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

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with a nonzero derivation d satisfying
 $F(xy) = xy + Z(R)$ 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

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Prime Rings

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

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JORDAN DERIVATIONS OF PRIME RINGS1

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 derivation on a 2-torsion free semiprime ring is a

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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 ...

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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

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show that our results cannot be
extended to semi-prime rings.

Derivations and Jordan ideals in prime
rings - ScienceDirect

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Derivations: Avadhanam,

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completely prime gamma rings. C.U.
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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 ??rings. Punjab

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Generalized higher (U, M) -derivations
in prime \mathcal{A} -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

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Prime Rings. 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 $G([x,y]) = 0$.

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Jordan u -Generalized Reverse
Derivations on Semiprime Rings
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

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Prime Rings. But the converse is in general not true. Herstein [3] showed that every Jordan derivation from a 2-torsion free prime ring

Algebra has been developing through

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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

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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

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Prime Rings 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

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resource book for the beginners and
advanced experts in Algebra.

In particular, the study of derivations in prime or semi prime rings has yielded many interesting results. These results

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Prime Rings have applications in other branches. Many mathematicians of recent years studied derivations on rings with keen interest and their investigations throw light on the study of different types of generalized derivations on rings. Very few mathematicians had studied and contributed in the field of reverse

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Derivations in rings. In this book we presented some results concerning to reverse derivations in rings.

Throughout this book a ring is a synonym for an associative ring which does not have a unit element. In this book we presented some results on reverse derivations, generalized

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reverse derivations and Jordan
reverse derivations in prime rings and
semi prime rings.

Papers on Smarandache magic
square, Smarandache friendly
numbers, some another remarks on
the generalization of Bernoulli and

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Euler numbers, an integral identity involving the Hermite polynomials, vinegar identification by ultraviolet spectrum technology and pattern recognition method, pairwise semi compact and pairwise semi lindeloff spaces, and other topics. Contributors: C. Prabpayak, U. Leerawat, S. M.

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Khairnar, S. Balasubramanian, B.
Amudhambigai, A. H. Majeed, A. D.
Hamdi, H. Jolany, M. R. Darafsheh,
and others.

This advanced algebra book deals
with derivations, generalized
derivations, centralizers and theta-

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Prime Rings. 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

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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

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Prime Rings. 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

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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.

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This volume showcases mostly the contributions presented at the International Conference in Algebra and Its Applications held at the Aligarh Muslim University, Aligarh, India during November 12-14, 2016.

Refereed by renowned experts in the field, this wide-ranging collection of

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Prime Rings presents the state of the art in the field of algebra and its applications covering topics such as derivations in rings, category theory, Baer module theory, coding theory, graph theory, semi-group theory, HNP rings, Leavitt path algebras, generalized matrix algebras, Nakayama conjecture, near

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ring theory and lattice theory. All of the contributing authors are leading international academicians and researchers in their respective fields.

Contents On Structure of δ -Prime Rings with Generalized Derivation A characterization of additive mappings in rings with involution| Skew

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theorem on Lie ideals Generalized

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property in amalgamated algebra Pure
ideals in ordered Γ -semigroups
Projective ideals of differential
polynomial rings over HNP rings

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Ideals in Product Lattices Separability

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Annihilators of power values of
generalized skew derivations on Lie
ideals Generalized derivations on
prime rings with involution

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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

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Prime Rings 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 generalize R. Awtar's theorem of derivation of prime ring by giving the

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Principles 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

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generalized 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)

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higher homomorphism to study these
concepts onto 2-torsion free prime

This volume contains the talks given at the INDAM workshop entitled "Polynomial identities in algebras", held in Rome in September 2019. The purpose of the book is to present the

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current state of the art in the theory of PI-algebras. The review of the classical results in the last few years has pointed out new perspectives for the development of the theory. In particular, the contributions emphasize on the computational and combinatorial aspects of the theory, its

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Prime Rings connection with invariant theory, representation theory, growth problems. It is addressed to researchers in the field.

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