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# smarandache rings



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2002

# Smarandache Rings

**G Orfield**



## Smarandache Rings:

**Smarandache Rings** W. B. Vasantha Kandasamy, 2002 Generally in any human field a Smarandache Structure on a set  $A$  means a weak structure  $W$  on  $A$  such that there exists a proper subset  $B$  which is embedded with a stronger structure  $S$  By proper subset one understands a set included in  $A$  different from the empty set from the unit element if any and from  $A$  These types of structures occur in our every day's life that's why we study them in this book Thus as two particular cases A Smarandache ring of level I S ring I is a ring  $R$  that contains a proper subset that is a field with respect to the operations induced A Smarandache ring of level II S ring II is a ring  $R$  that contains a proper subset  $A$  that verifies  $A$  is an additive abelian group  $A$  is a semigroup under multiplication For  $a, b \in A$ ,  $a \cdot b = 0$  if and only if  $a = 0$  or  $b = 0$  Smarandache Fuzzy Algebra W. B. Vasantha Kandasamy, 2003 **Smarandache Notions**, 2002 **Introduction to NeutroRings** A.A.A. Agboola, 2020-10-01 The objective of this paper is to introduce the concept of NeutroRings by considering three NeutroAxioms NeutroAbelianGroup additive NeutroSemigroup multiplicative and NeutroDistributivity multiplication over addition Several interesting results and examples on NeutroRings NeutroSubgrings NeutroIdeals NeutroQuotientRings and NeutroRingHomomorphisms are presented It is shown that the 1st isomorphism theorem of the classical rings holds in the class of NeutroRings *A Study on Neutrosophic Zero Rings* T. Chalapathi, L. Madhavi, Abstract algebra is largely concerned with the study of abstract sets endowed with one or more binary operations along with few axioms In this paper we consider one of the basic algebraic structures known as a ring called a classical ring *Scientia Magna, Vol. 1, No. 2, 2005* Zhang Wenpeng, W. B. Vasantha Kandasamy, 2006 Collection of papers from various scientists dealing with smarandache notions in science *Scientia Magna, Vol. 2, No. 3, 2006* Zhang Wenpeng, W. B. Vasantha Kandasamy, Papers on the Pseudo Smarandache function primes in the Smarandache deconstructive sequence recursion formulae for Riemann zeta function and Dirichlet series parastrophic invariance of Smarandache quasigroups certain inequalities involving the Smarandache function and other similar topics Contributors A Majumdar S Gupta S Zhang C Chen A Muktibodh J Sandor M Karama A Vyawahare H Zhou and many others **Scientia Magna, Vol. 5, No. 4, 2009** Zhang Wenpeng, Papers on Pseudo Smarandache function and Smarandache LCM function the minimum number of polychromatic  $C$  hyperedges of the complete uniform mixed hypergraphs under one special condition complete monotonicity properties for the gamma function and Barnes  $G$  function semigroup of continuous functions and Smarandache semigroups and other similar topics Contributors T Srinivas A K S C S Rao X Liang W He J Soontharanon U Leerawat J Wang C Zheng F A Z Shirazi A Hosseini and many others *Smarandache BE-Algebras* Arsham Borumand Saeid, v behavior url default VML o behavior url default VML w behavior url default VML shape behavior url default VML Normal 0 false false false EN US X NONE X NONE Style Definitions table MsoNormalTable mso style name Table Normal mso tstyle rowband size 0 mso tstyle colband size 0 mso style noshow yes mso style priority 99 mso style parent mso padding alt 0in 5 4pt 0in 5 4pt mso para margin top 0in mso para margin right 0in

mso para margin bottom 8 Opt mso para margin left 0in line height 107% mso pagination widow orphan font size 11 Opt font family Calibri sans serif mso ascii font family Calibri mso ascii theme font minor latin mso hansi font family Calibri mso hansi theme font minor latin There are three types of Smarandache Algebraic Structures 1 A Smarandache Strong Structure on a set  $S$  means a structure on  $S$  that has a proper subset  $P$  with a stronger structure A Smarandache Weak Structure on a set  $S$  means a structure on  $S$  that has a proper subset  $P$  with a weaker structure A Smarandache Strong Weak Structure on a set  $S$  means a structure on  $S$  that has two proper subsets  $P$  with a stronger structure and  $Q$  with a weaker structure By proper subset of a set  $S$  one understands a subset  $P$  of  $S$  different from the empty set from the original set  $S$  and from the idempotent elements if any Having two structures  $u$  and  $v$  defined by the same operations one says that structure  $u$  is stronger than structure  $v$  if  $u \geq v$  if the operations of  $u$  satisfy more axioms than the operations of  $v$  Each one of the first two structure types is then generalized from a 2 level the sets  $P$   $S$  and their corresponding strong structure  $w_1$   $w_0$  respectively their weak structure  $w_1$   $w_2$   $w_1$   $w_0$  or respectively their weak structure  $w_n$   $w_{n-1}$   $w_{n-2}$   $w_1$   $w_0$  Similarly for the third structure type whose generalization is a combination of the previous two structures at the  $n$  level A Smarandache Weak BE Algebra  $X$  is a BE algebra in which there exists a proper subset  $Q$  such that  $1 \leq Q \leq 2$  and  $Q$  is a CI algebra And a Smarandache Strong CI Algebra  $X$  is a CI algebra  $X$  in which there exists a proper subset  $Q$  such that  $1 \leq Q \leq 2$  and  $Q$  is a BE algebra The book elaborates a recollection of the BE CI algebras then introduces these last two particular structures and studies their properties

Introduction to neutrosophic Nnearrings S. A. Akinleye, E. O. Adeleke, A. A. Agboola, The objective of this paper is to introduce the concept of neutrosophic nearrings The concept of neutrosophic  $N$  group of a neutrosophic nearring is introduced We study neutrosophic subnearrings of neutrosophic nearrings and also neutrosophic  $N$  subgroups of neutrosophic  $N$  groups

**International Journal of Mathematical Combinatorics, Volume 2, 2012** Linfan Mao, Topics in detail to be covered are Smarandache multi spaces with applications to other sciences such as those of algebraic multi systems multi metric spaces Smarandache geometries Differential Geometry Geometry on manifolds Topological graphs Algebraic graphs Random graphs Combinatorial maps Graph and map enumeration Combinatorial designs Combinatorial enumeration Low Dimensional Topology Differential Topology Topology of Manifolds Geometrical aspects of Mathematical Physics and Relations with Manifold Topology Applications of Smarandache multi spaces to theoretical physics Applications of Combinatorics to mathematics and theoretical physics Mathematical theory on gravitational fields Mathematical theory on parallel universes Other applications of Smarandache multi space and combinatorics

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Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy Manoj Sahni, José M. Merigó, Brajesh Kumar Jha, Rajkumar Verma, 2021-02-28 This book presents new knowledge and recent developments in all aspects of computational techniques mathematical modeling energy systems applications of fuzzy sets and intelligent computing The book is a collection of best selected research papers presented at the International Conference on Mathematical Modeling Computational Intelligence Techniques and Renewable Energy organized by the Department of Mathematics Pandit Deendayal Petroleum University in association with Forum for Interdisciplinary Mathematics Institution of Engineers IEI Gujarat and Computer Society of India CSI Ahmedabad The book provides innovative works of researchers academicians and students in the area of interdisciplinary mathematics statistics computational intelligence and renewable energy

**Advances in Algebra and Analysis** V. Madhu, A. Manimaran, D. Easwaramoorthy, D. Kalpanapriya, M. Mubashir Unnissa, 2019-01-23 This volume is the first of two containing selected papers from the International Conference on Advances in Mathematical Sciences Vellore India December 2017 Volume I This meeting brought together researchers from around the world to share their work with the aim of promoting collaboration as a means of solving various problems in modern science and engineering The authors of each chapter present a research problem techniques suitable for solving it and a discussion of the results obtained These volumes will be of interest to both theoretical and application oriented individuals in academia and industry Papers in Volume I are dedicated to active and open areas of research in algebra analysis operations research and statistics and those of Volume II consider differential equations fluid mechanics and graph theory

MATHEMATICAL COMBINATORICS (INTERNATIONAL BOOK SERIES), VOLUME 2, 2009 Linfan Mao, 2009-09-17 Papers by many authors about the Smarandache Bol Loops Smarandachely Precontinuous maps and Preopen Sets Smarandache quasigroups and loops Smarandache right inverse Smarandache bijections Smarandache permutation symmetric group S permutation group Smarandache path k cover Smarandache space Smarandache k tiling Smarandachely dominating k set Smarandache graphoidal tree k d cover of a graph Smarandache k orientation Smarandache k tree Smarandache k orientation Smarandache geometries etc

*Mathematical Combinatorics, Vol. 2/2009* Linfan Mao, 2009 This volume contains a collection of articles on smarandache notions in graph theory combinatorics

**La Pedagogía Inclusiva en la formación doctoral. Una visión desde la Neutrosfía** Maura de la Caridad Salabarría Roig, José Sergio Puig Espinosa, The article refers to the experience carried out in the Center for Studies of Educational Quality and Scientific Research located in Toluca city State of Mexico Mexico referring to the doctoral training model based on Neutrosophy a relatively new philosophical discipline whose value in this circumstance lies in the consideration of neutral opinions in the process of directing the research work that it is part of the doctoral training

**Mathematical Combinatorics, Vol. 1/2008** Linfan Mao, Papers on flexibility of Embeddings of a Halin Graph on the Projective Plane curvature Equations on Combinatorial Manifolds with Applications to Theoretical Physics a Pair of Smarandachely Isotopic Quasigroups and Loops of the Same Variety and similar topics

Contributors Arun S Muktibodh Han Ren Yun Bai Yuhua Fu Anjie Fushenglin Cao Guangxuan Wang and others

*AH-Homomorphisms in Neutrosophic Rings and Refined Neutrosophic Rings* Hasan Sankari, Mohammad Abobala, 2020-12-01 Algebraic relations between rings are determined by homomorphisms and isomorphisms This paper introduces a new kind of algebraic functions between two neutrosophic rings to give more agility in the exploring of neutrosophic substructures properties where it generalizes the concept of AHS homomorphism in neutrosophic rings and refined neutrosophic rings Also it determines the algebraic structure of neutrosophic AH endomorphisms of the additive group of neutrosophic ring and refined neutrosophic ring

*A Study of Some Neutrosophic Differential Equations as a Direct Application of One-Dimensional Geometric AH-Isometry* Ahmed A. Salama, Malath F. Alaswad, Rasha Dallah, Rozina Ali, 2022-01-01 In this paper we use the one dimensional AH isometry to find the structure of the solutions of many neutrosophic differential equations These equations will be handled by the algebraic direct image of the neutrosophic AH isometry taken in one dimension

## Whispering the Strategies of Language: An Emotional Quest through **Smarandache Rings**

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