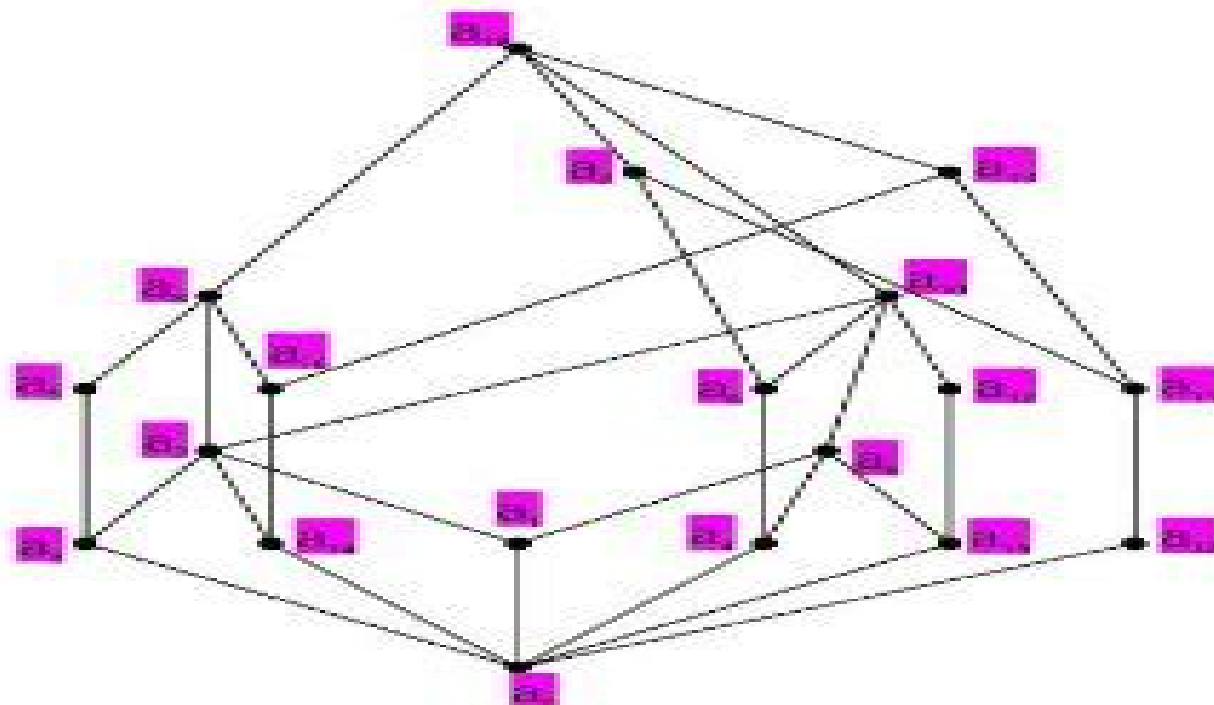


w. b. vasantha kandasamy

smarandache rings



american research press

2002

Smarandache Rings

Linfan Mao



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 **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 **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 **Smarandache Notions**, 2002 *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 **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 **Introduction to neutrosophic Nnearrings** S. A. Akinleye, E. O. Adeleke, A. 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 **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
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 para margin right 0in mso para margin bottom 8 0pt mso para margin left 0in line height 107% mso pagination widow
 orphan font size 11 0pt 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 i e $u \geq v$ 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 $w_1 \leq w_0$ respectively their weak structure $w_1 \geq w_0$ or respectively their weak
 structure $w_n \leq w_{n-1} \leq w_{n-2} \leq w_1 \leq w_0$ 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 **Mathematical Combinatorics, Vol. 2/2012** Linfan
 Mao, Papers on Non Solvable Spaces of Linear Equation Systems Roman Domination in Complementary Prism Graphs On
 Pathos Total Semitotal and Entire Total Block Graph of a Tree Distance Two Labeling of Generalized Cacti Degree Splitting
 Graph on Graceful Felicitous and Elegant Labeling and other topics Contributors Agboola A A A Adeleke E O Akinleye S A B
 Chaluvaraju V Chaitra P Selvaraju P Balaganesan J Renuka V Balaj Suhua Ye Yizhi Chen Hui Luo and others

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 **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 Neutrosofía 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 *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

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 **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 **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

Mathematical Combinatorics, Vol. 4/2011 Linfan Mao, Papers on Divisor Cordial Graphs Random Walk on a Finitely Generated Monoid A Variation of Decomposition Under a Length Constraint Fibonacci and Super Fibonacci Graceful Labelings of Some Cycle Related Graphs The Order of the Sandpile Group of Infinite Complete Expansion Regular Graphs and other topics Contributors Akinola L S Agboola A A A Ismail Sahul Hamid Mayamma Joseph R Hasni A Shaman Y H Peng G C Lau S K Vaidya U M Prajapati and others

This book delves into Smarandache Rings. Smarandache Rings is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Smarandache Rings, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Smarandache Rings
- Chapter 2: Essential Elements of Smarandache Rings
- Chapter 3: Smarandache Rings in Everyday Life
- Chapter 4: Smarandache Rings in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Smarandache Rings. The first chapter will explore what Smarandache Rings is, why Smarandache Rings is vital, and how to effectively learn about Smarandache Rings.
3. In chapter 2, the author will delve into the foundational concepts of Smarandache Rings. The second chapter will elucidate the essential principles that need to be understood to grasp Smarandache Rings in its entirety.
4. In chapter 3, the author will examine the practical applications of Smarandache Rings in daily life. The third chapter will showcase real-world examples of how Smarandache Rings can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Smarandache Rings in specific contexts. This chapter will explore how Smarandache Rings is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Smarandache Rings. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Smarandache Rings.

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