

# Smarandache Near-Rings

*W. B. Vasantha  
Kandasamy*

# Smarandache Nearrings

**Manoj Sahni, José M. Merigó, Brajesh  
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## **Smarandache Nearrings:**

**Smarandache Near-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  $B$  in  $A$  which is embedded with a stronger structure  $S$  These types of structures occur in our everyday life that's why we study them in this book Thus as a particular case A Near Ring is a non empty set  $N$  together with two binary operations and such that  $N$  is a group not necessarily abelian  $N$  is a semigroup For all  $a, b, c$  in  $N$  we have  $a(bc) = (ac)b$  A Near Field is a non empty set  $P$  together with two binary operations and such that  $P$  is a group not necessarily abelian  $P \setminus \{0\}$  is a group For all  $a, b, c \in P$  we have  $a(bc) = (ac)b$  A Smarandache Near ring is a near ring  $N$  which has a proper subset  $P$  in  $N$  where  $P$  is a near field with respect to the same binary operations on  $N$

**Bialgebraic Structures and Smarandache Bialgebraic Structures** W. B. Vasantha Kandasamy, 2003-01-01 Generally the study of algebraic structures deals with the concepts like groups semigroups groupoids loops rings near rings semirings and vector spaces The study of bialgebraic structures deals with the study of bistructures like bigroups biloops bigroupoids bisemigroups birings binear rings bisemirings and bivector spaces A complete study of these bialgebraic structures and their Smarandache analogues is carried out in this book For examples A set  $S$  with two binary operations and is called a bisemigroup of type II if there exists two proper subsets  $S_1$  and  $S_2$  of  $S$  such that  $S = S_1 \cup S_2$  and  $S_1$  is a semigroup  $S_2$  is a semigroup Let  $S$  be a bisemigroup We call  $S$  a Smarandache bisemigroup  $S$  bisemigroup if  $S$  has a proper subset  $P$  such that  $P$  is a bigroup under the operations of  $S$  Let  $L$  be a non empty set with two binary operations  $L$  is said to be a biloop if  $L$  has two nonempty finite proper subsets  $L_1$  and  $L_2$  of  $L$  such that  $L = L_1 \cup L_2$  and  $L_1$  is a loop  $L_2$  is a loop or a group Let  $L$  be a biloop we call  $L$  a Smarandache biloop  $S$  biloop if  $L$  has a proper subset  $P$  which is a bigroup Let  $G$  be a non empty set We call  $G$  a bigroupoid if  $G = G_1 \cup G_2$  and satisfies the following  $G_1$  is a groupoid i.e the operation is non associative  $G_2$  is a semigroup Let  $G$  be a non empty set with  $G = G_1 \cup G_2$  we call  $G$  a Smarandache bigroupoid  $S$  bigroupoid if  $G_1$  and  $G_2$  are distinct proper subsets of  $G$  such that  $G = G_1 \cup G_2$  neither  $G_1$  nor  $G_2$  are included in each other  $G_1$  is a  $S$  groupoid  $G_2$  is a  $S$  semigroup A nonempty set  $R$  with two binary operations and is said to be a biring if  $R = R_1 \cup R_2$  where  $R_1$  and  $R_2$  are proper subsets of  $R$  and  $R_1$  is a ring  $R_2$  is a ring A Smarandache biring  $S$  biring  $R$  is a non empty set with two binary operations and such that  $R = R_1 \cup R_2$  where  $R_1$  and  $R_2$  are proper subsets of  $R$  and  $R_1$  is a  $S$  ring  $R_2$  is a  $S$  ring

**Smarandache Fuzzy Algebra** W. B. Vasantha Kandasamy, 2003 The author studies the Smarandache Fuzzy Algebra which like its predecessor Fuzzy Algebra arose from the need to define structures that were more compatible with the real world where the grey areas mattered not only black or white In any human field a Smarandache  $n$  structure on a set  $S$  means a weak structure  $w_0$  on  $S$  such that there exists a chain of proper subsets  $P_{n-1}$  in  $P_{n-2}$  in  $P_{n-2}$  in  $P_{n-1}$  in  $S$  whose corresponding structures verify the chain  $w_{n-1}$  includes  $w_{n-2}$  includes  $w_{n-2}$  includes  $w_{n-1}$  includes  $w_0$  where includes signifies strictly stronger i.e structure satisfying more axioms This book is referring to a Smarandache 2 algebraic

structure two levels only of structures in algebra on a set  $S$  i.e a weak structure  $w_0$  on  $S$  such that there exists a proper subset  $P$  of  $S$  which is embedded with a stronger structure  $w_1$  Properties of Smarandache fuzzy semigroups groupoids loops bigroupoids biloops non associative rings birings vector spaces semirings semivector spaces non associative semirings bisemirings near rings non associative near ring and binear rings are presented in the second part of this book together with examples solved and unsolved problems and theorems Also applications of Smarandache groupoids near rings and semirings in automaton theory in error correcting codes and in the construction of  $S$  subbiautomaton can be found in the last chapter

**Smarandache Neutrosophic Algebraic Structures** W. B. Vasantha Kandasamy, 2006-01-01 Smarandache algebraic structures that inter relates two distinct algebraic structures and analyzes them relatively can be considered a paradigm shift in the study of algebraic structures For instance the algebraic structure Smarandache semigroup simultaneously involves both group and semigroup Recently Neutrosophic Algebraic Structures were introduced This book ventures to define Smarandache Neutrosophic Algebraic Structures Here Smarandache neutrosophic structures of groups semigroups loops and groupoids and their  $N$  ary structures are introduced and analyzed There is a lot of scope for interested researchers to develop these concepts *Smarandache Special Definite Algebraic Structures* W. B. Vasantha Kandasamy, 2009-01-01 We

study these new Smarandache algebraic structures which are defined as structures which have a proper subset which has a weak structure A Smarandache Weak Structure on a set  $S$  means a structure on  $S$  that has a proper subset  $P$  with a weaker structure By proper subset of a set  $S$  we mean a subset  $P$  of  $S$  different from the empty set from the original set  $S$  and from the idempotent elements if any 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 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 **Smarandache Notions, Vol. 14** W. B. Vasantha

Kandasamy, G. Niculescu, M. Khoshnevisan, 2004-01-01 Papers concerning any of the Smarandache type functions sequences numbers algorithms inferior superior  $f$  parts magic squares palindromes functional iterations semantic paradoxes Non Euclidean geometries manifolds conjectures open problems algebraic structures neutrosophy neutrosophic logic set probability hypothesis that there is no speed barrier in the universe quantum paradoxes etc have been selected for this volume Contributors are from Australia China England Germany India Ireland Israel Italy Japan Malaysia Morocco Portugal Romania Spain USA Most of the papers are in English a few of them are in Spanish Portuguese or German

**Smarandache Function Journal, vol. 14/2004** Sabin Tabirca, Tatiana Tabirca, A collection of papers concerning Smarandache type functions numbers sequences integer algorithms paradoxes experimental geometries algebraic structures neutrosophic probability set and logic etc *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

Some Neutrosophic Algebraic Structures and Neutrosophic N-Algebraic Structures W. B. Vasantha Kandasamy, Florentin Smarandache, 2006-01-01 This book for the first time introduces neutrosophic groups neutrosophic semigroups neutrosophic loops and neutrosophic groupoids and their neutrosophic N structures The special feature of this book is that it tries to analyze when the general neutrosophic algebraic structures like loops semigroups and groupoids satisfy some of the classical theorems for finite groups viz Lagrange Sylow and Cauchy This is mainly carried out to know more about these neutrosophic algebraic structures and their neutrosophic N algebraic structures *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 Algebraic Structures on Fuzzy Unit Square and Neutrosophic Unit Square W. B. Vasantha Kandasamy, Florentin Smarandache, 2014 In this book authors build algebraic structures on fuzzy unit semi open square  $UF(a, b)$  with  $a, b \in [0, 1]$  and on neutrosophic unit semi open square  $UN(a, b)$  with  $a, b \in [0, 1]$  As distributive laws are not true we are not in a position to develop several properties of rings semirings and linear algebras Seven open conjectures are proposed *Algebraic Structures on Finite Complex Modulo Integer Interval  $C([0, n])$*  W. B. Vasantha Kandasamy, Florentin Smarandache, 2014-09-16 In this book authors introduce the notion of finite complex modulo integer intervals Finite complex modulo integers was introduced by the authors in 2011 Now using this finite complex modulo integer intervals several algebraic structures are built **N-Algebraic Structures** W. B. Vasantha Kandasamy, Florentin Smarandache, 2005-01-01 In this book for the first time we introduce the notions of N groups N semigroups N loops and N groupoids We also define a mixed N algebraic structure The book is organized into six chapters The first chapter gives the basic notions of S semigroups S groupoids and S loops thereby making the book self contained Chapter two introduces N groups and their Smarandache analogues In chapter three N loops and Smarandache N loops are introduced and analyzed Chapter four defines N groupoids and S N groupoids Since the N semigroup structures are sandwiched between groups and groupoids the study can be carried out without any difficulty Mixed N algebraic structures and S mixed algebraic structures are given in chapter five Some problems are suggested in chapter six It is pertinent to mention that several exercises and problems Some in the form of proof to the theorems are given in all the chapters A reader who attempts to solve them will certainly gain a sound knowledge about these concepts We have given 50 problems for the reader to solve in chapter 6 The main aim of this book is to introduce new concepts and explain them with examples thereby encouraging young mathematics to pursue research in this direction Several theorems based on the definition can be easily

proved with simple modification Innovative readers can take up that job Also these notions find their applications in automaton theory and coloring problems The  $N$  semigroups and  $N$  automaton can be applied to construct finite machines which can perform multitasks so their capability would be much higher than the usual automaton of finite machines constructed We have suggested a list of references for further reading **Smarandache Notions Journal** W. B. Vasantha Kandasamy, M. Khoshnevisan, G. Niculescu, 2004 Papers concerning any of the Smarandache type functions sequences numbers algorithms inferior superior  $f$  parts magic squares palindromes functional iterations semantic paradoxes Non Euclidean geometries manifolds conjectures open problems algebraic structures neutrosophy neutrosophic logic set probability hypothesis that there is no speed barrier in the universe quantum paradoxes etc have been selected for this volume Contributors are from Australia China England Germany India Ireland Israel Italy Japan Malaysia Morocco Portugal Romania Spain USA Most of the papers are in English a few of them are in Spanish Portuguese or German

**Smarandache Notions Journal**, 2004 Scientia Magna, Vol. 9, No. 3, 2013 Zhang Wenpeng, Papers on some characterization of Smarandache boolean near ring with sub direct sum structure three classes of exact solutions to Klein Gordon Schrodinger equation a short interval result for the extension of the exponential divisor function a function in the space of univalent function of Bazilevic type Smarandache bisymmetric geometric determinat sequences and other topics Contributors Aldous Cesar F Bueno D Vamshee Krishna T Ramreddy Hai Long Li Qian Li Yang and S Panayappan Hongming Xia N Kannappa P Tamilvani and others **Introduction to Neutrosophic Hypernear-rings** M.A. Ibrahim, A.A.A. Agboola, This paper is concerned with the introduction of neutrosophic hypernear rings The concept of neutrosophic A hypergroup of a hypernear ring A neutrosophic A I hypergroup of a neutrosophic hypernear ring A I and their respective neutrosophic substructures are defined We investigate and present some interesting results arising from the study of hypernear rings in neutrosophic environment It is shown that a constant neutrosophic hypernear ring in general is not a constant hypernear ring In addition we consider the neutrosophic ideals neutrosophic homomorphism and neutrosophic quotient hypernear rings of neutrosophic hypernear rings *Behaviour of ring ideal in neutrosophic and soft sense* Tuhin Bera, Said Broumi, Nirmal Kumar Mahapatra, This article enriches the idea of neutrosophic soft ideal NSI The notion of neutrosophic soft prime ideal NSPI is also introduced here The characteristics of both NSI and NSPI are investigated Their relations are drawn with the concept of ideal and prime ideal in crisp sense Any neutrosophic soft set  $Nss$  can be made into NSI or NSPI using the respective cut set under a situation The homomorphic characters of ideal and prime ideal in this new class are also drawn critically 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

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