



*Florentin Smarandache*

# Smarandache Nearrings

**W. B. Vasantha Kandasamy**



## **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 example, 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 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 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 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 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  $P_{n-1} \subset P_{n-2} \subset \dots \subset P_2 \subset P_1 \subset S$  whose corresponding structures verify the chain  $w_{n-1} \supset w_{n-2} \supset \dots \supset w_2 \supset w_1 \supset w_0$  where  $\supset$  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

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web experiment 8 ballistic pendulum objective to use a ballistic pendulum to determine the velocity of a projectile to verify this velocity by measuring the range of the projectile experiment we use measurements obtained from a ballistic pendulum to review energy conservation momentum conservation and projectile motion

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done by launching a plumb bob to see its height from above the ground to the landing and also the bob

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web the ballistic pendulum measures the velocity of projectiles through the conservation of linear momentum and mechanical energy in this experiment we can determine the initial velocities of the projectile motion by measuring the distance on which the center of mass of the projectile rises through the law of conservation of linear momentum and

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and a stopwatch to take the oscillation period of the pendulum

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web experimental technique 1 use foam to set up a trap to catch the projectile see image 1 2 set up the pendulum and projectile launcher with the rotary motion sensor see image 2 3 3 measure the mass of the pendulum and the projectile as well as the length of the pendulum 4 prepare data studio for the experiment 5

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web theory a ballistic pendulum is a device that can be used to measure the speed of projectiles using both conservation of momentum and conservation of energy it contains a swinging pendulum and a spring gun the gun shoots out the projectile ball bearing into the bob creating an inelastic collision

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