Groupoids and Smarandache Groupoids

W. B. Vasantha Kandasamy

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Wangtao Yuan,Xiaohong Zhang

Groupoids And Smarandache Groupoids:

Groupoids and Smarandache Groupoids W. B. Vasantha Kandasamy,2002-12-01 Definition 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 Smarandache Groupoid is a groupoid G which has a proper subset S in G such that S under the operation of G is a semigroup Smarandache Non-Associative 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 s life that s why we study them in this book Thus as a particular case A Non associative ring is a non empty set R together with two binary operations and such that R is an additive abelian group and R is a groupoid For all a b c in R we have a b c a c b c and c a b c a c b A Smarandache non associative ring is a non associative ring R which has a proper subset P in R that is an associative ring with respect to the same binary operations on R **Bilagebraic 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 S1 and S2 of S such that S S1 U S2 and S1 is a semigroup S2 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 L1 and L2 of L such that L L1 U L2 and L1 is a loop L2 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 G1 U G2 and satisfies the following G1 is a groupoid i e the operation is non associative G2 is a semigroup Let G be a non empty set with G G1 U G2 we call G a Smarandache bigroupoid S bigroupoid if G1 and G2 are distinct proper subsets of G such that G G1 U G2 neither G1 nor G2 are included in each other G1 is a S groupoid G2 is a S semigroup A nonempty set R with two binary operations and is said to be a biring if R R1 U R2 where R1 and R2 are proper subsets of R and R1 is a ring R2 is a ring A Smarandache biring S biring R is a non empty set with two binary operations and such that R R1 U R2 where R1 and R2 are proper subsets of R and R1 is a S ring R2 is a S ring *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 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 in P 2 in P 1 in S whose corresponding structures verify the chain w n 1 includes w n 2 includes includes w 2 includes w 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 sub biautomaton can be found in the last chapter **Subset Groupoids** W. B. Vasantha Kandasamy, Florentin Smarandache,2013 **A Study of New Concepts in Smarandache Quasigroups and Loops** Jaiyeola Temitope Gbolahan,2009 This monograph is a compilation of results on some new Smarandache concepts in Smarandache groupoids quasigroups and loops and it pin points the inter relationships and connections between andamong the various Smarandache concepts and notions that have been developed This monograph isstructured into six chapters The first chapter is an introduction to the theory quasigroups and loops withmuch attention paid to those quasigroup and loop concepts whose Smarandache versions are to bestudied in the other chapters In chapter two the holomorphic structures of Smarandache loops ofBol Moufang type and Smarandache loops of non Bol Moufang type are studied In the third chapter the notion of parastrophy is introduced into Smarandache quasigroups and studied Chapter four studiesthe universality of some Smarandache loops of Bol Moufang type In chapter five the notion ofSmarandache isotopism is introduced and studied in Smarandache quasigroups and loops In chaptersix by introducing Smarandache special mappings in Smarandache groupoids the SmarandacheBryant Schneider group of a Smarandache loop is developed **SMARANDACHE SOFT GROUPOIDS** Mumtaz Ali, In this paper Smarandache soft groupoids shortly SS groupoids are introduced as a generalization of Smarandache Soft semigroups SS semigroups A Smarandache Soft groupoid is an approximated collection of Smarandache subgroupoids of a groupoid Further we introduced parameterized Smarandache groupoid and strong soft semigroup over a groupoid Smarandache soft ideals are

presented in this paper We also discussed some of their core and fundamental properties and other notions with sufficient amount of examples At the end we introduced Smarandache soft groupoid homomorphism **Interval Groupoids** W. B. Vasantha Kandasamy,Florentin Smarandache,Moon Kumar Chetry,2010 This book defines new classes of groupoids like matrix groupoid polynomial groupoid interval groupoid and polynomial groupoid An interesting feature of this book is that introduces 77 new definitions substantiated and described by 426 examples and 150 theorems **Generalized Fibonacci sequences in groupoids** Hee Sik Kim,J. Neggers,Keum Sook So, In this paper we introduce the notion of generalized Fibonacci sequences over a groupoid and discuss it in particular for the case where the groupoid contains idempotents and pre idempotents Using the notion of Smarandache type P algebra we obtain several relations on groupoids which are derived from generalized Fibonacci sequences **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 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 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 w1 w0 respectively their weak structure w1 wn 2 w2 w1 w0 or respectively their weak structure wn 1 wn 2 w2 w1 w0 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 Q Q 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 Q Q 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 Groupoids of Type I and II Using [0, n) W. B. Vasantha Kandasamy,Florentin Smarandache,2014 Study of algebraic structures built using 0 n looks to be one of interesting and innovative research Here we define two types of groupoids using 0 n both of them are of infinite order It is an open

conjecture to find whether this new class of groupoids satisfy any of the special identities like Moufang identity or Bol identity and so on Smarandache n-Structure on CI-Algebras Arsham Borumand Saeid,Akbar Rezaei, In this paper the notions of CI algebras Smarandache CI algebra Q Smarandache filters and Q Smarandache ideals are introduced Finally we introduced the concepts of Smarandache BE algebra Smarandache dual BCK algebra and Smarandache n structure on CI algebra **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 there by 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 *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 **Regular CA-Groupoids and Cyclic Associative Neutrosophic Extended Triplet Groupoids (CA-NETGroupoids) with Green Relations** Wangtao Yuan,Xiaohong Zhang, Based on the theories of AG groupoid neutrosophic extended triplet NET and semigroup the characteristics of regular cyclic associative groupoids CA groupoids and cyclic associative neutrosophic extended triplet groupoids CA NET groupoids are further studied and some important results are obtained 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 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 **Smarandache Function Journal, vol. 14/2004** Sabin Tabirca ,Tatiana Tabirca , A collection of papers concerning Smarandache type functions numbers sequences inteqer algorithms paradoxes experimental geometries algebraic structures neutrosophic probability set and logic etc A Kind of Variation Symmetry: Tarski Associative Groupoids (TA-Groupoids) and Tarski Associative Neutrosophic Extended Triplet Groupoids (TA-NETGroupoids) Xiaohong Zhang,Wangtao Yuan,Mingming Chen,Florentin Smarandache, The associative law reflects symmetry of operation and other various variation associative laws reflect some generalized symmetries In this paper based on numerous literature and related topics such as function equation non associative groupoid and non associative ring we have introduced a new concept of Tarski associative groupoid or transposition associative groupoid TAgroupoid presented extensive examples obtained basic properties and structural characteristics and discussed the relationships among few non associative groupoids Moreover we proposed a new concept of Tarski associative neutrosophic extended triplet groupoid TA NET groupoid and analyzed related properties Finally the following important result is proved every TA NETgroupoid is a disjoint union of some groups which are its subgroups

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