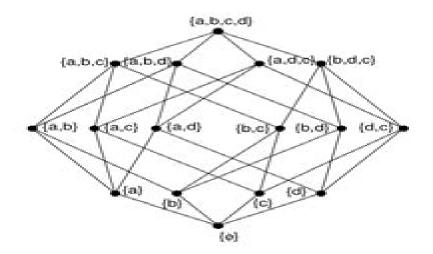# Smarandache semirings, semifields and semivector spaces

W. B. VASANTHA KANDASAMY

Smarandache Semirings Semifields And Semivector Spaces

W. B. Vasantha Kandasamy

Smarandache Semirings Semifields And Semivector Spaces:

Smarandache Semirings, Semifields, and Semivector Spaces W. B. Vasantha Kandasamy,2002 *Smarandache Semirings, Semifields, and Semivector Spaces* W. B. Vasantha Kandasamy,2002 **Linguistic Semilinear Algebras and Linguistic Semivector Spaces** W. B. Vasantha Kandasamy,Ilanthenral K.,Florentin Smarandache,2022-12-15 Algebraic structures on linguistic sets associated with a linguistic variable are introduced The linguistics with single closed binary operations are only semigroups and monoids We describe the new notion of linguistic semirings linguistic semifields linguistic semivector spaces and linguistic semilinear algebras defined over linguistic semifields We also define algebraic structures on linguistic subsets of a linguistic set associated with a linguistic variable We define the notion of linguistic subset semigroups linguistic subset monoids and their respective substructures We also define as in case of deals in classical semigroups linguistic ideals in linguistic semigroups and linguistic monoids This concept of linguistic ideals is extended to the case of linguistic subset semigroups and linguistic subset monoids We also define linguistic substructures **Linear Algebra and Smarandache Linear Algebra** W. B. Vasantha Kandasamy,2003 In this book the author analyzes the Smarandache linear algebra and introduces several other concepts like the Smarandache semilinear algebra Smarandache bilinear algebra and Smarandache anti linear algebra We indicate that Smarandache vector spaces of type II will be used in the study of neutrosophic logic and its applications to Markov chains and Leontief Economic models both of these research topics have intense industrial applications The Smarandache linear algebra is defined to be a Smarandache vector space of type II on which there is an additional operation called product such that for all a b in V ab is in V The Smarandache vector space of type II is defined to be a module V defined over a Smarandache ring R such that V is a vector space over a proper subset k of R where k is a field **Special Subset Linguistic Topological Spaces** W. B. Vasantha Kandasamy,Ilanthenral K.,Florentin Smarandache, In this book authors for the first time introduce the new notion of special subset linguistic topological spaces using linguistic square matrices This book is organized into three chapters Chapter One supplies the reader with the concept of ling set ling variable ling continuum etc Specific basic linguistic algebraic structures like linguistic semigroup linguistic monoid are introduced Also algebraic structures to linguistic square matrices are defined and described with examples For the first time non commutative linguistic topological spaces are introduced The notion of a linguistic special subset of doubly non commutative topological spaces of linguistic topological spaces is introduced in this book

Linguistic Multidimensional Spaces W. B. Vasantha Kandasamy,Ilanthenral K.,Florentin Smarandache,2023-10-01 This book extends the concept of linguistic coordinate geometry using linguistic planes or semi linguistic planes In the case of coordinate planes we are always guaranteed of the distance between any two points in that plane However in the case of linguistic and semi linguistic planes we can not always determine the linguistic distance between any two points This is the first limitation of linguistic planes and semi linguistic planes Bilagebraic Structures and Smarandache Bialgebraic

<u>Structures</u> 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   **Interval Linear Algebra** W. B. Vasantha Kandasamy, Florentin Smarandache,2010 Interval Arithmetic or Interval Mathematics was developed in the 1950s and 1960s as an approach to rounding errors in mathematical computations However there was no methodical development of interval algebraic structures to this date This book provides a systematic analysis of interval algebraic structures viz interval linear algebra using intervals of the form 0 a   *Introduction to Bimatrices* W. B. Vasantha Kandasamy,Florentin Smarandache,K. Ilanthenral,2005 Generally any real world problem is not always solvable because in that not only a percentage of uncertainty is present but also a certain percentage of indeterminacy is present The presence of uncertainty has been analyzed using fuzzy logic In this book the amount of indeterminacy is being analyzed using neutrosophic logic Most of these models use the concept of matrices Matrices have certain limitation when the models are time dependent and any two experts opinions are being studied simultaneously one cannot compare both of them at each stage The new concept of bimatrices would certainly cater to these needs A bimatrix AB A1 U B2 where A1 and A2 are distinct matrices of arbitrary order This book introduces the concept of bimatrices and studies several notions like bieigen values bieigen vectors characteristic bipolynomials bitransformations bioperators and bidiagonalization Further we introduce and explore the concepts like fuzzy bimatrices neutrosophic bimatrices and fuzzy neutrosophic bimatrices which will find its application in fuzzy and neutrosophic logics   **Super Linear Algebra** W. B. Vasantha Kandasamy,Florentin Smarandache,2008 Super Linear Algebras are built using super

matrices These new structures can be applied to all fields in which linear algebras are used Super characteristic values exist only when the related super matrices are super square diagonal super matrices Super diagonalization analogous to diagonalization is obtained These newly introduced structures can be applied to Computer Sciences Markov Chains and Fuzzy Models **Algebraic Structures Using Natural Class of Intervals** W. B. Vasantha Kandasamy,Florentin Smarandache,2011 **Subset Non Associative Semirings** W. B. Vasantha Kandasamy,Florentin Smarandache, Special Type of Topological Spaces Using [0, n) W. B. Vasantha Kandasamy,Florentin Smarandache,2015-02-15 In this book authors for the first time introduce the notion of special type of topological spaces using the interval 0 n They are very different from the usual topological spaces Algebraic structure using the interval 0 n have been systemically dealt by the authors Now using those algebraic structures in this book authors introduce the notion of special type of topological spaces Using the super subset interval semigroup special type of super interval topological spaces are built **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 **Study of Natural Class of Intervals Using (-∞, ∞) and (∞, -∞)** W. B. Vasantha Kandasamy, Florentin Smarandache, D. Datta, H. S. Kushwaha, P. A. Jadhav,2011 In this book the authors introduce and study the properties of natural class of intervals built using and The operations on these matrices with entries from natural class of intervals behave like usual reals So working with these interval matrices takes the same time as usual matrices Hence when applying them to fuzzy finite element methods or finite element methods the determination of solution is simple and time saving *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 *Special Set Linear Algebra and Special Set Fuzzy Linear Algebra* W. B. Vasantha Kandasamy,W. B. Vasantha Kandasamy, Florentin Smarandache, K. Ilanthenral,Florentin Smarandache,K. Ilanthenral,2009-01-01 Special Set Linear Algebras introduced by the authors in this book is an extension of Set Linear Algebras which are the most generalized form of linear algebras These structures can be applied to multi expert models The dominance of computers in everyday life calls for a paradigm shift in the concepts of linear algebras The authors belief that special set linear algebra will cater to that need **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 b c a c b c 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 0 is a group For all a b c I P we have a b c a c b c 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   **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   **Set Linear Algebra and Set Fuzzy Linear Algebra** W. B. Vasantha Kandasamy,Florentin Smarandache,K. Ilanthenral,2008 Set linear algebras introduced by the authors in this book are the most generalized form of linear algebras These structures make use of very few algebraic operations and are easily accessible to non mathematicians as well The dominance of computers in everyday life calls for a paradigm shift in the concepts of linear algebra The authors believe that set linear algebra will cater to that need

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Table of Contents Smarandache Semirings Semifields And Semivector Spaces

1. Understanding the eBook Smarandache Semirings Semifields And Semivector Spaces
   - The Rise of Digital Reading Smarandache Semirings Semifields And Semivector Spaces
   - Advantages of eBooks Over Traditional Books
2. Identifying Smarandache Semirings Semifields And Semivector Spaces
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Smarandache Semirings Semifields And Semivector Spaces
   - User-Friendly Interface
4. Exploring eBook Recommendations from Smarandache Semirings Semifields And Semivector Spaces
   - Personalized Recommendations
   - Smarandache Semirings Semifields And Semivector Spaces User Reviews and Ratings
   - Smarandache Semirings Semifields And Semivector Spaces and Bestseller Lists
5. Accessing Smarandache Semirings Semifields And Semivector Spaces Free and Paid eBooks
   - Smarandache Semirings Semifields And Semivector Spaces Public Domain eBooks
   - Smarandache Semirings Semifields And Semivector Spaces eBook Subscription Services
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