

w. b. vasantha kandasamy

# SMARANDACHE FUZZY ALGEBRA



Indo American Books

# Smarandache Fuzzy Algebra

**Husein Hadi Abbass, Qasim Mohsin  
Luhaib**



## Smarandache Fuzzy Algebra:

**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  $\dots$  in  $P_2$  in  $P_1$  in  $S$  whose corresponding structures verify the chain  $w_{n-1}$  includes  $w_{n-2}$  includes  $\dots$  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  $S$  subbiautomaton can be found in the last chapter

*Q-Smarandache Fuzzy Implicative Ideal of Q-Smarandache BH-Algebra* Husein Hadi Abbass, Qasim Mohsin Luhaib, In this paper The notions of Q Smarandache fuzzy implicative ideal and Q Smarandache fuzzy sub implicative ideal of a Q Smarandache BH Algebra introduced examples are given and related properties investigated the relationships among these notions and other types of Q Smarandache fuzzy ideal of a Q Smarandache BH Algebra are studied *Smarandache Fuzzy Algebra* W. B. Vasantha Kandasamy, 2003 *On a Q-Smarandache Fuzzy Commutative Ideal of a Q-Smarandache BH-algebra* Husein Hadi Abbass , Qasim Mohsin Luhaib, In this paper the notions of Q Smarandache fuzzy commutative ideal and Q Smarandache fuzzy sub commutative ideal of a Q Smarandache BH Algebra are introduced examples and related properties are investigated Also the relationships among these notions and other types of Q Smarandache fuzzy ideal of a Q Smarandache BH Algebra are studied *Smarandache Fuzzy Strong Ideal and Smarandache Fuzzy n-Fold Strong Ideal of a BH-Algebra* Shahrezad Jasim Mohammed, In this paper we define the concepts of a Q Smarandache n fold strong ideal and a Q Smarandache fuzzy strong n fold strong ideal of a BH algebra Also we study some properties of these fuzzy ideals *On the structure of general algebras and its applications* Young Joo Seo, In this thesis we discuss some structural theory of a d algebra which is a generalization of a BCK algebra and we discuss analytic real algebras We investigate several conditions for analytic real algebras to be d algebras Moreover we introduce the notion of a Smarandacheness to BCI algebras and obtain several properties on Smarandache fuzzy BCI algebras *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

*Smarandache fuzzy BCI-algebras* Sun Shin Ahn, Young Joo Seo, The notions of a Smarandache fuzzy subalgebra ideal of a Smarandache BCI algebra a Smarandache fuzzy clean fresh ideal of a Smarandache BCI algebra are introduced Examples are given and several related properties are investigated

**Smarandache** Mihaly Bencze, 2019-12-10 Florentin Smarandache is a professor of mathematics at the University of New Mexico United States He got his MSc in Mathematics and Computer Science from the University of Craiova Romania PhD in Mathematics from the State University of Kishinev and Postdoctoral in Applied Mathematics from Okayama University of Sciences Japan He is the founder of neutrosophy generalization of dialectics neutrosophic set logic probability and statistics since 1995 and has published hundreds of papers and books on neutrosophic physics superluminal and instantaneous physics unmatter quantum paradoxes absolute theory of relativity redshift and blueshift due to the medium gradient and refraction index besides the Doppler effect paradoxism outerart neutrosophy as a new branch of philosophy Law of Included Multiple Middle multispace and multistructure hypersoft set degree of dependence and independence between neutrosophic components refined neutrosophic set neutrosophic over under off set plithogenic set neutrosophic triplet and duplet structures quadruple neutrosophic structures extension of algebraic structures to NeutroAlgebras and AntiAlgebras DSMT and so on to many peer reviewed international journals and many books and he presented papers and plenary lectures to many international conferences around the world

*Biography of Florentin Smarandache* Mihaly Bencze, 2019-12-10 Florentin Smarandache is a professor of mathematics at the University of New Mexico United States He got his MSc in Mathematics and Computer Science from the University of Craiova Romania PhD in Mathematics from the State University of Kishinev and Postdoctoral in Applied Mathematics from Okayama University of Sciences Japan He is the founder of neutrosophy generalization of dialectics neutrosophic set logic probability and statistics since 1995 and has published hundreds of papers and books on neutrosophic physics superluminal and instantaneous physics unmatter quantum paradoxes absolute theory of relativity redshift and blueshift due to the medium gradient and refraction index besides the Doppler effect paradoxism outerart neutrosophy as a new branch of philosophy Law of Included Multiple Middle multispace and multistructure hypersoft set degree of dependence and independence between neutrosophic components refined neutrosophic set neutrosophic over under off set plithogenic set neutrosophic triplet and duplet structures quadruple neutrosophic structures extension of algebraic structures to NeutroAlgebras and AntiAlgebras DSMT and so on to many peer reviewed international journals and many books and he presented papers and plenary lectures

to many international conferences around the world

**Mathematical Combinatorics, vol. I, 2014** Linfan Mao , Papers on Topological Model for Ecologically Industrial Systems Bounds for the Harmonious Coloring of Myceilskians Upper Singed Domination Number of Graphs Existence Results of Unique Fixed Point in 2 Banach Spaces Some Results in Fuzzy and Anti Fuzzy Group Theory and other topics Contributors Linfan Mao M Kamal Kumar B O Onasanya S A Ilori Buddhadev Pal Arindam Bhattacharyya Girish V R P Usha H B Walikar and others

**FUZZY IDEALS IN  $\hat{I}$ -NEAR-RINGS** S. J. ALANDKAR, **International Journal of Mathematical Combinatorics, Volume 1, 2014** Linfan Mao, The mathematical combinatorics is a subject that applying combinatorial notion to all mathematics and all sciences for understanding the reality of things in the universe The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences

*International Journal of Mathematical Combinatorics, Volume 3, 2014* Linfan Mao, The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences

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 Survey on Single-Valued Neutrosophic K-Algebras* Muhammad Akram,Kar-Ping Shum, In this survey we first present a brief overview of logical algebras We then discuss concepts of single valued neutrosophic K subalgebras single valued neutrosophic soft K algebras and single valued neutrosophic topological K algebras Moreover we discuss various fundamental concepts which includes interior closure C5 connectivity super connectivity compactness and Hausdorffness of single valued neutrosophic topological K algebras

**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

*Bipolar Neutrosophic Refined Sets and Their Applications in Medical Diagnosis* İrfan Deli ,Yusuf Şubaş , This paper proposes concept of bipolar neutrosophic refined set and its some operations Firstly a score certainty and accuracy function to compare the bipolar neutrosophic refined information is defined Secondly to aggregate the bipolar neutrosophic refined information a bipolar neutrosophic refined weighted average operator and a bipolar neutrosophic refined weighted geometric operator is developed

Commutative neutrosophic quadruple ideals of neutrosophic quadruple BCK-algebras M. Mohseni Takallo,Y. B. Jun, Commutative neutrosophic quadruple ideals and BCK algebras are discussed and related properties are investigated Conditions for the neutrosophic quadruple BCK algebra to be commutative are considered Given subsets A and B of a neutrosophic quadruple BCK algebra conditions for the set  $NQ(A, B)$  to be a commutative ideal of a neutrosophic quadruple BCK algebra are provided

*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

## Embracing the Song of Phrase: An Mental Symphony within **Smarandache Fuzzy Algebra**

In some sort of used by displays and the ceaseless chatter of quick interaction, the melodic splendor and emotional symphony developed by the written word often fade in to the back ground, eclipsed by the constant noise and interruptions that permeate our lives. However, situated within the pages of **Smarandache Fuzzy Algebra** an enchanting fictional treasure overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this fascinating masterpiece conducts viewers on a mental journey, well unraveling the concealed melodies and profound influence resonating within each cautiously constructed phrase. Within the depths of this poignant analysis, we will explore the book is central harmonies, analyze their enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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### **Smarandache Fuzzy Algebra Introduction**

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