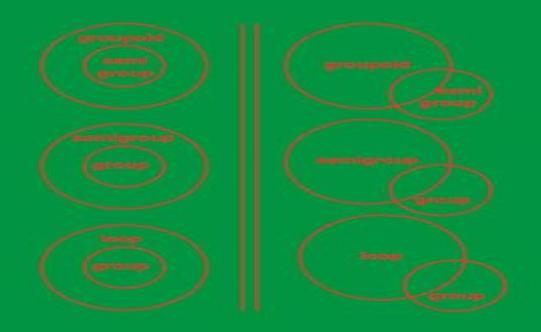
# SMARANDACHE FUZZY ALGEBRA





## **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 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

O-Smarandache Fuzzy Implicative Ideal of OSmarandache 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 Fuzzy Strong Ideal and Smarandache Fuzzy n-Fold Strong Smarandache BH Algebra are studied 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 On the structure of general algebras and its applications Young Joo Seo, In this thesis we discuss some ideals structural theory of a d algebra which is a generalization of a BCK algebra and wedis uss 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 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 Biography of Florentin Smarandache Mihaly Bencze, 2019-12-10 Florentin Smarandache is conferences around the world 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 FUZZY IDEALS IN Î"-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 referred 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 Advances in Algebra and Analysis V. Madhu, A. Manimaran, D. Easwaramoorthy, D. Kalpanapriya, M. to other sciences 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 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 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 Bipolar Neutrosophic Refined Sets and Their Applications in Medical Diagnosis Irfan Deli, Yusuf Subas, 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 bI with a b in 0 1 As distributive laws are not true we are not in a position to develop several properties of rings semirigs and linear algebras Seven open conjectures are proposed

Concepts of Interval-Valued Neutrosophic Graphs Muhammad Akram , Maryam Nasir, Broumi et al 15 proposedthe concept of interval valued neutrosophic graphs In this research article we rst show that there are some aws in Broumi et al 15 s de nition which cannot be applied in network models We then modify the de nition of an interval valued neutrosophic graph Further we present some operations on interval valued neutrosophic graphs Moreover we discuss the concepts of self complementary and self weak complementary interval valued neutrosophic complete graphs Finally we describe regularity of interval valued neutrosophic graphs

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To Expect Under Food Issue 8 Oct 17, 2019 — The mass balance is the quantity of incoming raw material against the quantity used in the resulting finished products, taking process waste and ... The Mass Balance Approach in Feedstock Substitution An established method to foster sustainability in existing infrastructure · Benefits of the Mass Balance Approach · Biomass balance and ChemCycling · ChemCycling ... 8. Mass Balance Mass-balance analysis may also be referred to as. "Material Flow Analysis" or "Substance Flow Analysis." Table 8.1 provides several examples of possible inputs,. Mass Balance Approach in the Chemical Industry The mass balance Approach (MBA) is a process for determining the use of chemically recycled or bio-based feedstock in a final product when both recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every.