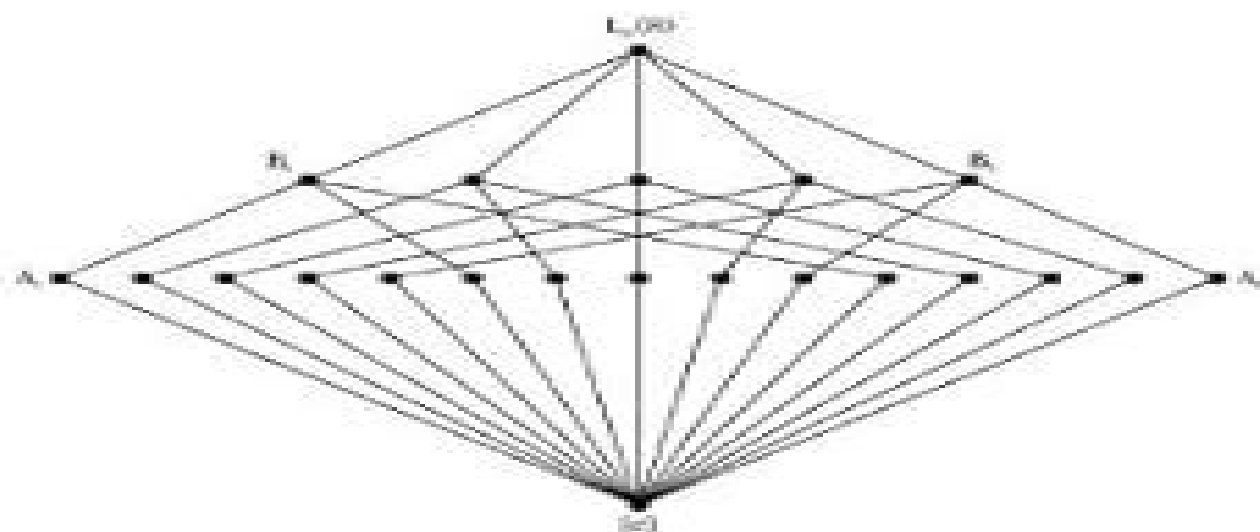


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Smarandache Loops

Zhang Wenpeng



Smarandache Loops:

Smarandache Loops 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 which is embedded with a stronger structure S . By proper subset one understands a set included in A different from the empty set from the unit element if any and from A . These types of structures occur in our every day's life that's why we study them in this book. As an example a non empty set L is said to form a loop if on L is defined a binary operation called product denoted by \cdot such that For all $a, b \in L$ we have $a \cdot b \in L$ closure property There exists an element $e \in L$ such that $a \cdot e = a$ for all $a \in L$ e is the identity element of L For every ordered pair $a, b \in L$ there exists a unique pair $x, y \in L$ such that $a \cdot x = b$ and $y \cdot a = b$. Whence a Smarandache Loop or S loop is a loop L such that a proper subset M of L is a subgroup with respect to the same induced operation. *Mathematical Combinatorics, Vol. 2/2009* Linfan Mao, 2009 This volume contains a collection of articles on smarandache notions in graph theory combinatorics. Mathematical Combinatorics, Vol. 2/2008 Linfan Mao, Papers on Characterization of Symmetric Primitive Matrices with Exponent n^2 Characterizations of Some Special Space like Curves in Minkowski Space time Combinatorially Riemannian Submanifolds On Smarandache Bryant Schneider Group of a Smarandache Loop and other topics Contributors Linfan Mao Bo Li Jing Wang Yuanqiu Huang Mehdi Hassani Melih Turgut Suha Yilmaz Suha Yilmaz Suur Nizamoglu A P Santhakumaran P Titus and others. *Mathematical Combinatorics, Vol. 1/2008* Linfan Mao, Papers on flexibility of Embeddings of a Halin Graph on the Projective Plane curvature Equations on Combinatorial Manifolds with Applications to Theoretical Physics a Pair of Smarandachely Isotopic Quasigroups and Loops of the Same Variety and similar topics Contributors Arun S Muktibodh Han Ren Yun Bai Yuhua Fu Anjie Fushenglin Cao Guangxuan Wang and others. **Scientia Magna, Vol. 2, No. 1, 2006** Zhang Wenpeng, W. B. Vasantha Kandasamy, 2006 Collection of papers from various scientists dealing with Smarandache Notions in science Papers on holomorphic study of the Smarandache concept in loops some arithmetical properties of primitive numbers of power p Smarandache quasigroups the mean value of the Smarandache simple divisor function and other similar topics Contributors Z Xu Y Shao X Zhao X Pan T Kim C Adiga J Han Q Yang and many others. **Smarandache Notions**, 2002. **MATHEMATICAL COMBINATORICS (INTERNATIONAL BOOK SERIES), VOLUME 2, 2009** Linfan Mao, 2009-09-17 Papers by many authors about the Smarandache Bol Loops Smarandachely Precontinuous maps and Preopen Sets Smarandache quasigroups and loops Smarandache right inverse Smarandache bijections Smarandache permutation symmetric group S permutation group Smarandache path k cover Smarandache space Smarandache k tiling Smarandachely dominating k set Smarandache graphoidal tree k d cover of a graph Smarandache k orientation Smarandache k tree Smarandache k orientation Smarandache geometries etc. **Scientia Magna, vol. 2, no. 4, 2006** Zhang Wenpeng, Papers on Smarandache inversion sequence global attractivity of a recursive sequence Smarandache fantastic ideals of Smarandache BCI algebras translational hull of superabundant semigroups with

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