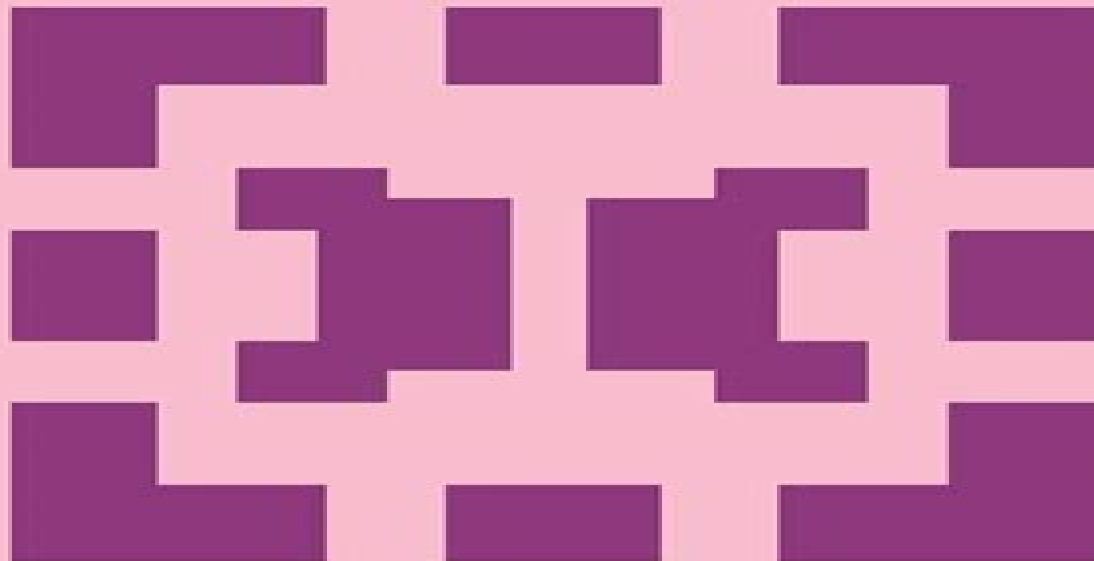


Mathematics and Its Applications

Lev V. Sabinin

Smooth Quasigroups and Loops



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Smooth Quasigroups And Loops

M. A. Akivis, B. A. Rosenfeld



Smooth Quasigroups And Loops:

Smooth Quasigroups and Loops L. Sabinin, 2012-12-06 During the last twenty five years quite remarkable relations between nonassociative algebra and differential geometry have been discovered in our work Such exotic structures of algebra as quasigroups and loops were obtained from purely geometric structures such as affinely connected spaces The notion of module was introduced as a fundamental algebraic invariant of differential geometry For any space with an affine connection loopuscular modular and geomodular structures partial smooth algebras of a special kind were introduced and studied As it happened the natural geomodular structure of an affinely connected space allows us to reconstruct this space in a unique way Moreover any smoothly ab strictly given geomodular structure generates in a unique manner an affinely connected space with the natural geomodular structure isomorphic to the initial one The above said means that any affinely connected in particular Riemannian space can be treated as a purely algebraic structure equipped with smoothness Numerous habitual geometric properties may be expressed in the language of geomodular structures by means of algebraic identities etc Our treatment has led us to the purely algebraic concept of affinely connected in particular Riemannian spaces for example one can consider a discrete or even finite space with affine connection in the form of geomodular structure which can be used in the old problem of discrete space time in relativity essential for the quantum space time theory

Quasigroups and Loops Orin Chein, Hala O. Pflugfelder, Jonathan D. H. Smith, 1990 **Non-Associative Algebra and Its Applications** Lev Sabinin, Larissa Sbitneva, Ivan Shestakov, 2006-01-13 With contributions derived from presentations at an international conference Non Associative Algebra and Its Applications explores a wide range of topics focusing on Lie algebras nonassociative rings and algebras quasigroups loops and related systems as well as applications of nonassociative algebra to geometry physics and natural sciences This book covers material such as Jordan superalgebras nonassociative deformations nonassociative generalization of Hopf algebras the structure of free algebras derivations of Lie algebras and the identities of Albert algebra It also includes applications of smooth quasigroups and loops to differential geometry and relativity **Nonassociative Algebra and Its Applications** R. Costa, 2019-05-20 A collection of lectures presented at the Fourth International Conference on Nonassociative Algebra and its Applications held in Sao Paulo Brazil Topics in algebra theory include alternative Bernstein Jordan Lie and Malcev algebras and superalgebras The volume presents applications to population genetics theory physics and more

Elements of Quasigroup Theory and Applications Victor Shcherbacov, 2017-05-12 Understanding Interaction is a book that explores the interaction between people and technology in the broader context of the relations between the human made and the natural environments It is not just about digital technologies our computers smart phones the Internet but all our technologies such as mechanical electrical and electronic Our ancestors started creating mechanical tools and shaping their environments millions of years ago developing cultures and languages which in turn influenced our evolution Volume 1 of Understanding Interaction looks into this deep history

starting from the tool creating period the longest and most influential on our physical and mental capacities to the settlement period agriculture domestication villages and cities written language the industrial period science engineering reformation and renaissance and finally the communication period mass media digital technologies global networks Volume 2 looks into humans in interaction our physiology anatomy neurology psychology how we experience and influence the world and how we think we think From this transdisciplinary understanding design approaches and frameworks are presented to potentially guide future developments and innovations The aim of the book is to be guide and inspiration for designers artists engineers psychologists media producers social scientists etc and as such be useful for both novices and more experienced practitioners

International Journal of Mathematical Combinatorics, Volume 2, 2011 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 Quantum Lie Theory Vladislav

Kharchenko,2015-12-24 This is an introduction to the mathematics behind the phrase quantum Lie algebra The numerous attempts over the last 15 20 years to define a quantum Lie algebra as an elegant algebraic object with a binary quantum Lie bracket have not been widely accepted In this book an alternative approach is developed that includes multivariable operations Among the problems discussed are the following a PBW type theorem quantum deformations of Kac Moody algebras generic and symmetric quantum Lie operations the Nichols algebras the Gurevich Manin Lie algebras and Shestakov Umirbaev operations for the Lie theory of nonassociative products Opening with an introduction for beginners and continuing as a textbook for graduate students in physics and mathematics the book can also be used as a reference by more advanced readers With the exception of the introductory chapter the content of this monograph has not previously appeared in book form **CMUC** ,2016 *Scientific Legacy Of Professor Zbigniew Oziewicz: Selected Papers From The International Conference "Applied Category Theory Graph-operad-logic"* Hilda Maria Colin Garcia,Jose De Jesus Cruz Guzman,Louis H

Kauffman,Hanna Makaruk,2023-09-27 Dedicated to the memory of the late Professor Zbigniew Oziewicz from Universidad Nacional Aut noma de M xico the book consists of papers on a wide variety of topics related to the work of Professor Oziewicz which were presented at the special conference on Graph Operads Logic GOL 2021 selected through peer review to promote his scientific legacy Professor Oziewicz was a great enthusiast and supporter of category theory and its applications in physics as well as in various areas of mathematics topology noncommutative geometry etc In particular he made significant contributions to the theory of Frobenius algebras which now are becoming more important due to their connection with topological quantum field theories that are used in mathematical physics and in quantum topology Professor

Oziewicz was a great and very generous teacher who immersed his students in the beautiful ideas of category theory as well as mathematical physics and computation. It was his idea to start a series of conferences under the title Graphs Operads Logic most of them held in Mexico with some of them in the USA which were a great platform to discuss various ideas connected with category theory and its various applications and to make friends with other scientists. Despite his passing the GOL 2021 conference is included in this series to pay tribute to his many contributions to diverse areas of science. The book is laid out in twelve main topics where we can find relevant works from distinguished experts. **Elie Cartan (1869-1951)** M. A. Akivis, B. A. Rosenfeld, 2011-07-14 This book describes the life and achievements of the great French mathematician Elie Cartan. Here readers will find detailed descriptions of Cartan's discoveries in Lie groups and algebras, associative algebras, differential equations and differential geometry as well as later developments stemming from his ideas. There is also a biographical sketch of Cartan's life. A monumental tribute to a towering figure in the history of mathematics, this book will appeal to mathematicians and historians alike.

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