Lev V. Sabinin

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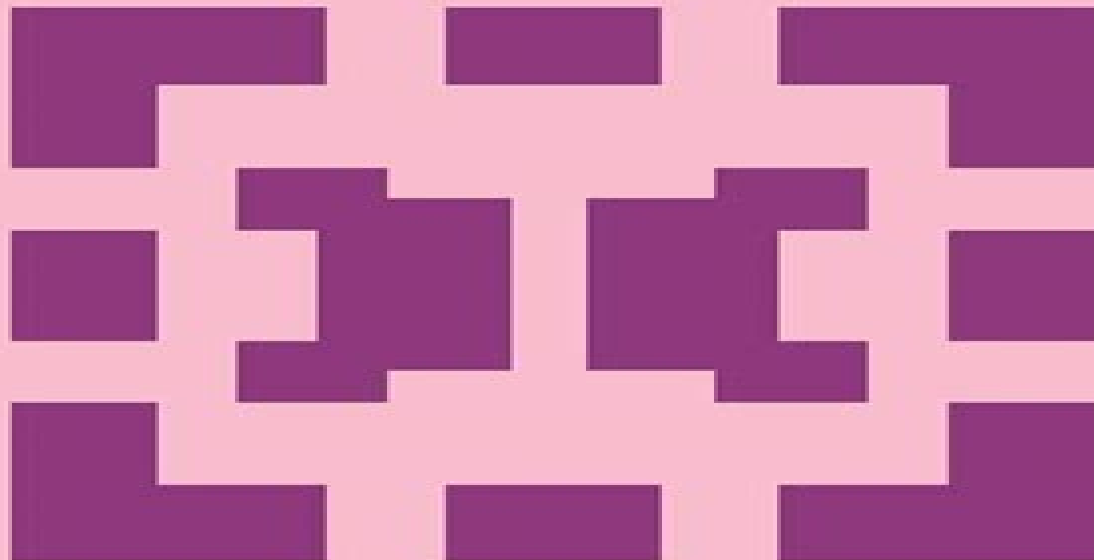
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Victor Shcherbacov

Smooth Quasigroups And Loops:

Smooth Quasigroups and Loops L. Sabinin,2012-12-06 During the last twenty five years quite remarkable relations between nonas sociative 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 ofodule was introduced as a fundamental algebraic invariant of differential geometry For any space with an affine connection loopuscular odular and geoodular structures partial smooth algebras of a special kind were introduced and studied As it happened the natural geoodular structure of an affinely connected space al lows us to reconstruct this space in a unique way Moreover any smooth ab stractly given geoodular structure generates in a unique manner an affinely con nected space with the natural geoodular 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 geoodular 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 ofgeoodular 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   *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 **Elements of Quasigroup Theory and Applications** Victor Shcherbacov,2017-05-12 This book provides an introduction to quasigroup theory along with new structural results on some of the quasigroup classes Many results are presented with some of them from mathematicians of the former USSR These included results have not been published before in the western mathematical literature In addition many of the achievements obtained with regard to applications of quasigroups in coding theory and cryptology are described *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 of 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 *Russian Mathematical Surveys* ,2006 Beyond the Einstein Addition Law and its Gyroscopic Thomas Precession Abraham A. Ungar,2012-12-06 I cannot define coincidence in mathematics But 1 shall argue that coincidence can always be elevated or organized into a superstructure which perfonns a unification along the coincidental elements The existence of a coincidence is strong evidence for the existence of a covering theory Philip 1 Davis Dav81 Alluding to the Thomas gyration this book presents the Theory of gy rogroups and gyrovector spaces taking the reader to the immensity of hyper bolic geometry that lies beyond the Einstein special theory of relativity Soon after its introduction by Einstein in 1905 Ein05 special relativity theory as named by Einstein ten years later became overshadowed by the ap pearance of general relativity Subsequently the exposition of special relativity followed the lines laid down by Minkowski in which the role of hyperbolic ge ometry is not emphasized This can doubtlessly be explained by the strangeness and unfamiliarity of hyperbolic geometry Bar98 The aim of this book is to reverse the trend of neglecting the role of hy perbolic geometry in the special theory of relativity initiated by Minkowski by emphasizing the central role that hyperbolic geometry plays in the theory **Russian Mathematics** ,1996 **Contemporary Problems In Mathematical Physics - Proceedings Of The Fourth International Workshop** Jan Govaerts,M Norbert Hounkonnou,Alfred Z Msezane,2006-10-05 The COPROMAPH Conference series has now evolved into a significant international arena where fundamental concepts in mathematical and theoretical physics and their applications can be conceived developed and disseminated The contributions in this volume address a variety of contemporary problems in mathematical and theoretical physics **Contemporary Problems in Mathematical Physics** Jan Govaerts,M. Norbert Hounkonnou,Alfred Z. Msezane,2006 The COPROMAPH Conference series has now evolved into a significant international arena where fundamental concepts in mathematical and theoretical physics and their applications can be conceived

developed and disseminated The contributions in this volume address a variety of contemporary problems in mathematical and theoretical physics *Lie Groups, Differential Equations, and Geometry* Giovanni Falcone,2017-09-19 This book collects a series of contributions addressing the various contexts in which the theory of Lie groups is applied A preliminary chapter serves the reader both as a basic reference source and as an ongoing thread that runs through the subsequent chapters From representation theory and Gerstenhaber algebras to control theory from differential equations to Finsler geometry and Lepage manifolds the book introduces young researchers in Mathematics to a wealth of different topics encouraging a multidisciplinary approach to research As such it is suitable for students in doctoral courses and will also benefit researchers who want to expand their field of interest *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 **Proceedings of the International Conference on Algebra Dedicated to the Memory of A. I. Mal$'$cev** Leonid A. Bokut',A. I. Kostrikin,1992 **Algebra and Its Applications** Manoj Kumar Patel,Mohammad Ashraf,Najib Mahdou,Hwankoo Kim,2025-01-13 This volume contains selected chapters on algebra and related topics presented at the International Conference on Algebra and its Applications held at the Department of Mathematics Faculty of Science and Technology Sidi Mohamed Ben Abdellah University Fez Morocco from 12 15 July 2023 held in honour of Prof Ayman Badawi and Prof Abdelmoujib Benkirane It contains a cross section of topics in algebra and its applications which contribute to the development of pure and applied algebra Chapters in the book focus on modern trends and techniques in various branches of pure and applied algebra and highlight their applications in several other branches of mathematics like coding theory

cryptography and graph theory Covering a broad range of topics in pure and applied algebra the book will be useful to a wide spectrum of researchers and graduate students in mathematics   *Handbook of Differential Geometry, Volume 1* F.J.E. Dillen,L.C.A. Verstraelen,1999-12-16 In the series of volumes which together will constitute the Handbook of Differential Geometry a rather complete survey of the field of differential geometry is given The different chapters will both deal with the basic material of differential geometry and with research results old and recent All chapters are written by experts in the area and contain a large bibliography   Theory of K-Loops Hubert Kiechle,2004-10-12 The book contains the first systematic exposition of the current known theory of K loops as well as some new material In particular big classes of examples are constructed The theory for sharply 2 transitive groups is generalized to the theory of Frobenius groups with many involutions A detailed discussion of the relativistic velocity addition based on the author s construction of K loops from classical groups is also included The first chapters of the book can be used as a text the later chapters are research notes and only partially suitable for the classroom The style is concise but complete proofs are given The prerequisites are a basic knowledge of algebra such as groups fields and vector spaces with forms   *Topological Fixed Point Theory of Multivalued Mappings* Lech Górniewicz,2013-11-11 This book is an attempt to give a systematic presentation of results and meth ods which concern the fixed point theory of multivalued mappings and some of its applications In selecting the material we have restricted ourselves to study ing topological methods in the fixed point theory of multivalued mappings and applications mainly to differential inclusions Thus in Chapter III the approximation on the graph method in fixed point theory of multi valued mappings is presented Chapter IV is devoted to the homo logical methods and contains more general results e g the Lefschetz Fixed Point Theorem the fixed point index and the topological degree theory In Chapter V applications to some special problems in fixed point theory are formulated Then in the last chapter a direct application s to differential inclusions are presented Note that Chapter I and Chapter II have an auxiliary character and only results con nected with the Banach Contraction Principle see Chapter II are strictly related to topological methods in the fixed point theory In the last section of our book see Section 75 we give a bibliographical guide and also signal some further results which are not contained in our monograph The author thanks several colleagues and my wife Maria who read and com mented on the manuscript These include J Andres A Buraczewski G Gabor A Gorka M Gorniewicz S Park and A Wieczorek The author wish to express his gratitude to P Konstanty for preparing the electronic version of this monograph   **Global Differential Geometry and Global Analysis** Dirk Ferus,Ulrich Pinkall,Udo Simon,Berd Wegner,2006-11-14 All papers appearing in this volume are original research articles and have not been published elsewhere They meet the requirements that are necessary for publication in a good quality primary journal E Belchev S Hineva On the minimal hypersurfaces of a locally symmetric manifold N Blasic N Bokan P Gilkey The spectral geometry of the Laplacian and the conformal Laplacian for manifolds with boundary J Bolton W M Oxbury L Vrancken L M Woodward Minimal immersions of RP2 into CPn W Cieslak A Miernowski W

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