

Kazimierz Głazek

**A Guide
to the Literature on
Semirings
and their Applications
in Mathematics and
Information Sciences**

With Complete Bibliography

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Guide To The Literature On Semirings And Their Applications In Mathematics And Information Sciences

DP Hallahan



Guide To The Literature On Semirings And Their Applications In Mathematics And Information Sciences:

A Guide to the Literature on Semirings and their Applications in Mathematics and Information Sciences K.

Glazek,2013-06-29 This volume presents a short guide to the extensive literature concerning semirings along with a complete bibliography The literature has been created over many years in variety of languages by authors representing different schools of mathematics and working in various related fields In many instances the terminology used is not universal which further compounds the difficulty of locating pertinent sources even in this age of the Internet and electronic dissemination of research results So far there has been no single reference that could guide the interested scholar or student to the relevant publications This book is an attempt to fill this gap My interest in the theory of semirings began in the early sixties when together with Bogdan W glorz I tried to investigate some algebraic aspects of compactifications of topological spaces semirings of semicontinuous functions and the general ideal theory for special semirings Unfortunately local algebraists in Poland told me at that time that there was nothing interesting in investigating semiring theory because ring theory was still being developed However some time later we became aware of some similar investigations having already been done The theory of semirings has remained my first love ever since and I have been interested in the results in this field that have been appearing in literature even though I have not been active in this area myself Fuzzy Semirings

with Applications to Automata Theory Javed Ahsan,John N. Mordeson,Muhammad Shabir,2012-03-05 The purpose of this book is to present an up to date account of fuzzy ideals of a semiring The book concentrates on theoretical aspects and consists of eleven chapters including three invited chapters Among the invited chapters two are devoted to applications of Semirings to automata theory and one deals with some generalizations of Semirings This volume may serve as a useful handbook for graduate students and researchers in the areas of Mathematics and Theoretical Computer Science Surveys in Contemporary Mathematics Nicholas Young,Yemon Choi,2008 A collection of articles showcasing the achievements of young Russian researchers in combinatorial and algebraic geometry and topology **Handbook of Algebra M.**

Hazewinkel,2009-07-08 Algebra as we know it today consists of many different ideas concepts and results A reasonable estimate of the number of these different items would be somewhere between 50 000 and 200 000 Many of these have been named and many more could and perhaps should have a name or a convenient designation Even the nonspecialist is likely to encounter most of these either somewhere in the literature disguised as a definition or a theorem or to hear about them and feel the need for more information If this happens one should be able to find enough information in this Handbook to judge if it is worthwhile to pursue the quest In addition to the primary information given in the Handbook there are references to relevant articles books or lecture notes to help the reader An excellent index has been included which is extensive and not limited to definitions theorems etc The Handbook of Algebra will publish articles as they are received and thus the reader will find in this third volume articles from twelve different sections The advantages of this scheme are two fold accepted

articles will be published quickly and the outline of the Handbook can be allowed to evolve as the various volumes are published. A particularly important function of the Handbook is to provide professional mathematicians working in an area other than their own with sufficient information on the topic in question if and when it is needed. Thorough and practical source of information. Provides in depth coverage of new topics in algebra. Includes references to relevant articles, books, and lecture notes.

Semirings and Affine Equations over Them Jonathan S. Golan, 2013-03-14. Semiring theory stands with a foot in each of two mathematical domains. The first being abstract algebra and the other the fields of applied mathematics such as optimization theory, the theory of discrete event dynamical systems, automata theory, and formal language theory, as well as from the allied areas of theoretical computer science and theoretical physics. Most important applications of semiring theory in these areas turn out to revolve around the problem of finding the equalizer of a pair of affine maps between two semimodules. In this volume we chart the state of the art on solving this problem and present many specific cases of applications. This book is essentially the third part of a trilogy along with *Semirings and their Applications* and *Power Algebras over Semirings*, both written by the same author and published by Kluwer Academic Publishers in 1999. While each book can be read independently of the others to get the full force of the theory and applications, one should have access to all three. This work will be of interest to academic and industrial researchers and graduate students. The intent of the book is to bring the applications to the attention of the abstract mathematicians and to make the abstract mathematics available to those who are using these tools in an ad hoc manner without realizing the full force of the theory.

Handbook of Weighted Automata Manfred Droste, Werner Kuich, Heiko Vogler, 2009-09-18. The purpose of this Handbook is to highlight both theory and applications of weighted automata. Weighted finite automata are classical nondeterministic finite automata in which the transitions carry weights. These weights may model, e.g., the cost involved when executing a transition, the amount of resources or time needed for this, or the probability or reliability of its successful execution. The behavior of weighted finite automata can then be considered as the function suitably defined associating with each word the weight of its execution. Clearly, weights can also be added to classical automata with infinite state sets like pushdown automata; this extension constitutes the general concept of weighted automata. To illustrate the diversity of weighted automata, let us consider the following scenarios. Assume that a quantitative system is modeled by a classical automaton in which the transitions carry as weights the amount of resources needed for their execution. Then the amount of resources needed for a path in this weighted automaton is obtained simply as the sum of the weights of its transitions. Given a word, we might be interested in the minimal amount of resources needed for its execution, i.e., for the successful paths realizing the given word. In this example, we could also replace the resources by profit and then be interested in the maximal profit realized correspondingly by a given word.

Coping with Complexity: Model Reduction and Data Analysis Alexander N. Gorban, Dirk Roose, 2010-10-21. This volume contains the extended version of selected talks given at the international research workshop *Coping with Complexity: Model Reduction*.

and Data Analysis Ambleside UK August 31 September 4 2009 The book is deliberately broad in scope and aims at promoting new ideas and methodological perspectives The topics of the chapters range from theoretical analysis of complex and multiscale mathematical models to applications in e g fluid dynamics and chemical kinetics

International Conference on Oriental Thinking and Fuzzy Logic Bing-Yuan Cao, Pei-Zhuang Wang, Zeng-Liang Liu, Yu-Bin Zhong, 2016-06-18 This proceedings book presents edited results of the eighth International Conference on Fuzzy Information and Engineering ICFIE 2015 and on Oriental Thinking and Fuzzy Logic in August 17 20 2015 in Dalian China The book contains 65 high quality papers and is divided into six main parts Fuzzy Information Processing Fuzzy Engineering Internet and Big Data Applications Factor Space and Factorial Neural Networks Information Granulation and Granular Computing as well as Extenics and Innovation Methods

Fuzzy Systems & Operations Research and Management Bing-Yuan Cao, Zeng-Liang Liu, Yu-Bin Zhong, Hong-Hai Mi, 2015-07-31 This book includes results of the seventh International Conference on Fuzzy Information and Engineering ICFIE 2014 and the 1st International Conference of Operations Research and Management ICORM 2014 on November 7 11 2014 in ZhuHai China The book contains 35 selected high quality papers and is divided into five main parts Part I focuses on Fuzzy Systems and Its Applications Part II on Fuzzy Mathematics and Its Applications Part III discusses Fuzzy Information and Computer Part IV is devoted to Operations Research and Management and Its Applications and Part V includes various other topics

Neutrosophic Sets and Systems, vol. 55/2023 Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2024-02-15 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i e notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel's dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well

M-Solid Varieties of Algebras Jörg Koppitz, Klaus Denecke, 2006-02-10 A complete and systematic introduction to the fundamentals of the hyperequational theory of universal algebra offering the newest results on solid varieties of semirings and semigroups The book aims to develop the theory of solid varieties as a system of mathematical discourse that is applicable in several concrete situations A unique feature of this book is the use of Galois connections to integrate different topics

Idempotent Mathematics and Mathematical Physics Grigoriĭ Lazarevich Litvinov, Viktor Pavlovich Maslov, 2005 Idempotent mathematics is a rapidly developing new branch of the mathematical

sciences that is closely related to mathematical physics The existing literature on the subject is vast and includes numerous books and journal papers A workshop was organized at the Erwin Schrodinger Institute for Mathematical Physics Vienna to give a snapshot of modern idempotent mathematics This volume contains articles stemming from that event Also included is an introductory paper by G Litvinov and additional invited contributions The resulting volume presents a comprehensive overview of the state of the art It is suitable for graduate students and researchers interested in idempotent mathematics and tropical mathematics

The q-theory of Finite Semigroups John Rhodes,Benjamin Steinberg,2009-04-05 Discoveries in finite semigroups have influenced several mathematical fields including theoretical computer science tropical algebra via matrix theory with coefficients in semirings and other areas of modern algebra This comprehensive encyclopedic text will provide the reader from the graduate student to the researcher practitioner with a detailed understanding of modern finite semigroup theory focusing in particular on advanced topics on the cutting edge of research Key features 1 Develops q theory a new theory that provides a unifying approach to finite semigroup theory via quantization 2 Contains the only contemporary exposition of the complete theory of the complexity of finite semigroups 3 Introduces spectral theory into finite semigroup theory 4 Develops the theory of profinite semigroups from first principles making connections with spectra of Boolean algebras of regular languages 5 Presents over 70 research problems most new and hundreds of exercises Additional features 1 For newcomers an appendix on elementary finite semigroup theory 2 Extensive bibliography and index The q theory of Finite Semigroups presents important techniques and results many for the first time in book form and thereby updates and modernizes the literature of semigroup theory

Ordered Algebraic Structures and Related Topics Fabrizio Brogna,2017 Contains the proceedings of the international conference Ordered Algebraic Structures and Related Topics held in October 2015 at CIRM Luminy Marseilles Papers cover topics in real analytic geometry real algebra and real algebraic geometry including complexity issues model theory of various algebraic and differential structures Witt equivalence of fields and the moment problem

An Invitation to Applied Category Theory Brendan Fong,David I. Spivak,2019-07-18 Category theory is unmatched in its ability to organize and layer abstractions and to find commonalities between structures of all sorts No longer the exclusive preserve of pure mathematicians it is now proving itself to be a powerful tool in science informatics and industry By facilitating communication between communities and building rigorous bridges between disparate worlds applied category theory has the potential to be a major organizing force This book offers a self contained tour of applied category theory Each chapter follows a single thread motivated by a real world application and discussed with category theoretic tools We see data migration as an adjoint functor electrical circuits in terms of monoidal categories and operads and collaborative design via enriched profunctors All the relevant category theory from simple to sophisticated is introduced in an accessible way with many examples and exercises making this an ideal guide even for those without experience of university level mathematics

Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation Cengiz

Kahraman, Selcuk Cebi, Sezi Cevik Onar, Basar Oztaysi, A. Cagri Tolga, Irem Ucal Sari, 2021-08-23 This book presents recent research in intelligent and fuzzy techniques Emerging conditions such as pandemic wars natural disasters and various high technologies force people for significant changes in business and social life The adoption of digital technologies to transform services or businesses through replacing non digital or manual processes with digital processes or replacing older digital technology with newer digital technologies through intelligent systems is the main scope of this book It focuses on revealing the reflection of digital transformation in our business and social life under emerging conditions through intelligent and fuzzy systems The latest intelligent and fuzzy methods and techniques on digital transformation are introduced by theory and applications The intended readers are intelligent and fuzzy systems researchers lecturers M Sc and Ph D students studying digital transformation Usage of ordinary fuzzy sets and their extensions heuristics and metaheuristics from optimization to machine learning from quality management to risk management makes the book an excellent source for researchers Acta Universitatis Carolinae ,2008 Mathematical Reviews ,2006 **Discussiones Mathematicae** ,2006 Scientiae Mathematicae Japonicae ,2001

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