

The Theory of Semirings:
With Applications in
Mathematics and Theoretical
Computer Science (Pitman
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Theory Of Semirings With Applications In Mathematics And Theoretical Computer Science

Christian G. Meyer



Theory Of Semirings With Applications In Mathematics And Theoretical Computer Science:

Semirings and their Applications Jonathan S. Golan, 2013-04-18 There is no branch of mathematics however abstract which may not some day be applied to phenomena of the real world Nikolai Ivanovich Lobatchevsky This book is an extensively revised and expanded version of The Theory of Semirings with Applications in Mathematics and Theoretical Computer Science Golan 1992 first published by Longman When that book went out of print it became clear in light of the significant advances in semiring theory over the past years and its new important applications in such areas as idempotent analysis and the theory of discrete event dynamical systems that a second edition incorporating minor changes would not be sufficient and that a major revision of the book was in order Therefore though the structure of the first edition was preserved the text was extensively rewritten and substantially expanded In particular references to many interesting and applications of semiring theory developed in the past few years had to be added Unfortunately I find that it is best not to go into these applications in detail for that would entail long digressions into various domains of pure and applied mathematics which would only detract from the unity of the volume and increase its length considerably However I have tried to provide an extensive collection of examples to arouse the reader's interest in applications as well as sufficient citations to allow the interested reader to locate them For the reader's convenience an index to these citations is given at the end of the book

The Theory of Semirings with Applications in Mathematics and Theoretical Computer Science Jonathan S. Golan, 1990

Semirings: Algebraic Theory And Applications In Computer Science Hanns Joachim Weinert, 1998-10-30 This book provides an introduction to the algebraic theory of semirings and in this context to basic algebraic concepts as e.g. semigroups lattices and rings It includes an algebraic theory of infinite sums as well as a detailed treatment of several applications in theoretical computer science Complete proofs various examples and exercises some of them with solutions make the book suitable for self study On the other hand a more experienced reader who looks for information about the most common concepts and results on semirings will find cross references throughout the book a comprehensive bibliography and various hints to it

Fuzzy Semirings with Applications to Automata Theory Javed Ahsan, John N.

Mordeson, Muhammad Shabir, 2012-03-14 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 hand book for graduate students and researchers in the areas of Mathematics and Theoretical Computer Science

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

Idempotent Analysis and Its Applications Vasily Kolokoltsov, Victor P. Maslov, 1997-04-30 The first chapter deals with idempotent analysis per se To make the presentation self contained in the first two sections we define idempotent semirings give a concise exposition of idempotent linear algebra and survey some of its applications Idempotent linear algebra studies the properties of the semirings A^n over a semiring A with idempotent addition in other words it studies systems of equations that are linear in an idempotent semiring Probably the first interesting and nontrivial idempotent semiring namely that of all languages over a finite alphabet as well as linear equations in this semiring was examined by S Kleene [107] in 1956 This noncommutative semiring was used in applications to compiling and parsing see also [1] Presently the literature on idempotent algebra and its applications to theoretical computer science linguistic problems finite automata discrete event systems and Petri nets biomathematics logic mathematical physics mathematical economics and optimization is immense e.g. see [9, 10, 11, 12, 13, 15, 16, 17, 22, 31, 32, 35, 36, 37, 38, 39, 40, 41, 52, 53, 54, 55, 61, 62, 63, 64, 68, 71, 72, 73, 74, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 88, 114, 125, 128, 135, 136, 138, 139, 141, 159, 160, 167, 170, 173, 174, 175, 176, 177, 178, 179, 180, 185, 186, 187, 188, 189] In [1, 2] we present the most important facts of the idempotent algebra formalism The semimodules A^n are idempotent analogs of the finite dimensional vector spaces $\mathbb{R}^n$ and hence endomorphisms of these semimodules can naturally be called idempotent linear operators on A^n

Current Trends in Theoretical Computer Science Gheorghe Păun, Arto Salomaa, 2001 The scientific developments at the end of the past millennium were dominated by the huge increase and diversity of disciplines with the common label computer science The theoretical foundations of such disciplines have become known as theoretical computer science This book highlights some key issues of theoretical computer science as they seem to us now at the beginning of the new millennium The text is based on columns and tutorials published in the Bulletin of the European Association for Theoretical Computer Science in the period 1995-2000 The columnists themselves selected the material they wanted for the book and the editors had a chance to update their work Indeed much of the material presented here appears in a form quite different from the original Since the presentation of most of the articles is reader friendly and

does not presuppose much knowledge of the area the book constitutes suitable supplementary reading material for various courses in computer science

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

Basic Modern Algebra with Applications Mahima Ranjan Adhikari, Avishek Adhikari, 2013-12-08 The book is primarily intended as a textbook on modern algebra for undergraduate mathematics students It is also useful for those who are interested in supplementary reading at a higher level The text is designed in such a way that it encourages independent thinking and motivates students towards further study The book covers all major topics in group ring vector space and module theory that are usually contained in a standard modern algebra text In addition it studies semigroup group action Hopf s group topological groups and Lie groups with their actions applications of ring theory to algebraic geometry and defines Zariski topology as well as applications of module theory to structure theory of rings and homological algebra Algebraic aspects of classical number theory and algebraic number theory are also discussed with an eye to developing modern cryptography Topics on applications to algebraic topology category theory algebraic geometry algebraic number theory cryptography and theoretical computer science interlink the subject with different areas Each chapter discusses individual topics starting from the basics with the help of illustrative examples This comprehensive text with a broad variety of concepts applications examples exercises and historical notes represents a valuable and unique resource

Results and Trends in Theoretical Computer Science Juliani Karhumäki, Hermann Maurer, 1994-05-26 This volume is dedicated to Professor Arto Salomaa on the occasion of his 60th birthday The 32 invited papers contained in the volume were presented at the festive colloquium organized by Hermann Maurer at Graz Austria in June 1994 the contributing authors are well known scientists with special relations to Professor Salomaa as friends Ph D students or co authors The volume reflects the broad spectrum of Professor Salomaa s research interests in theoretical computer science and mathematics with contributions particularly to automata theory formal language theory mathematical logic computability and cryptography The appendix presents Professor Salomaa s curriculum vitae and lists the more than 300 papers and 9 books he published

Groups, Rings And Modules With Applications M.R. Adhikari, A. Adhikari, 2003

Noncommutative Geometry, Arithmetic, and Related Topics Caterina Consani, Alain Connes, 2011 Mathematics Institute these essays collectively provide mathematicians and physicists with a comprehensive resource on the topic

Functional Programming, Glasgow 1994 Kevin

Hammond, David N. Turner, Patrick M. Sansom, 2013-03-09 This is the proceedings of the seventh annual workshop held by the Glasgow Functional Programming Group The purpose of the workshop is to provide a focus for new research to foster research contacts with other functional language researchers and to provide a platform for research students to develop their presentation skills As in previous years we spent three days closeted together in a pleasant seaside town isolated from normal work commitments We were joined by colleagues from other universities both UK and abroad and from industry Workshop participants presented a short talk about their current research work and produced a paper which appeared in a draft proceedings These papers were then reviewed and revised in the light of discussions at the workshop and the referees comments A selection of those revised papers the majority of those presented at the workshop appears here in the published proceedings The papers themselves cover a wide span from theoretical work on algebras and bisimilarity to experience with a real world medical application Unsurprisingly given Glasgow's track record there is a strong emphasis on compilation techniques and optimisations and there are also several papers on concurrency and parallelism

Noncommutative Geometry and Global Analysis Henri Moscovici, 2011 This volume represents the proceedings of the conference on Noncommutative Geometric Methods in Global Analysis held in honor of Henri Moscovici from June 29 July 4 2009 in Bonn Germany Henri Moscovici has made a number of major contributions to noncommutative geometry global analysis and representation theory This volume which includes articles by some of the leading experts in these fields provides a panoramic view of the interactions of noncommutative geometry with a variety of areas of mathematics It focuses on geometry analysis and topology of manifolds and singular spaces index theory group representation theory connections of noncommutative geometry with number theory and arithmetic geometry Hopf algebras and their cyclic cohomology

Developments In Language Theory II, At The Crossroads Of Mathematics, Computer Science And Biology Jurgen Dassow, Grzegorz Rozenberg, Arto Salomaa, 1996-05-25 The contributions of the proceedings cover almost all parts of the theory of formal languages from pure theoretical investigations to applications to programming languages Main topics are combinatorial properties of words sequences of words and sets of words grammar systems and grammars with controlled derivations generation of higher dimensional objects and graphs trace languages numerical parameters of automata and languages

Ordered Algebraic Structures and Related Topics Fabrizio Broglia, 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

[Encyclopaedia of Mathematics](#) Michiel Hazewinkel, 2012-12-06 This is the first Supplementary volume to Kluwer's highly acclaimed Encyclopaedia of Mathematics This additional volume contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10 volume set These entries have been arranged

alphabetically throughout A detailed index is included in the book This Supplementary volume enhances the existing 10 volume set Together these eleven volumes represent the most authoritative comprehensive up to date Encyclopaedia of Mathematics available

Advances in Ring Theory Sergio R. López-Permouth, Dinh Van Huynh, 2011-01-28 This volume consists of refereed research and expository articles by both plenary and other speakers at the International Conference on Algebra and Applications held at Ohio University in June 2008 to honor S K Jain on his 70th birthday The articles are on a wide variety of areas in classical ring theory and module theory such as rings satisfying polynomial identities rings of quotients group rings homological algebra injectivity and its generalizations etc Included are also applications of ring theory to problems in coding theory and in linear algebra

Fundamentals of Computation Theory Horst Reichel, 1995-08-16 This book presents the proceedings of the 10th International Conference on Fundamentals of Computation Theory FCT 95 held in Dresden Germany in August 1995 The volume contains five invited lectures and 32 revised papers carefully selected for presentation at FCT 95 A broad spectrum of theoretical computer science is covered among topics addressed are algorithms and data structures automata and formal languages categories and types computability and complexity computational logics computational geometry systems specification learning theory parallelism and concurrency rewriting and high level replacement systems and semantics

Open Problems in Mathematical Systems and Control Theory Vincent D. Blondel, Eduardo D. Sontag, Mathukumalli Vidyasagar, Jan C. Willems, 2012-12-06 System and Control theory is one of the most exciting areas of contemporary engineering mathematics From the analysis of Watt s steam engine governor which enabled the Industrial Revolution to the design of controllers for consumer items chemical plants and modern aircraft the area has always drawn from a broad range of tools It has provided many challenges and possibilities for interaction between engineering and established areas of pure and applied mathematics This impressive volume collects a discussion of more than fifty open problems which touch upon a variety of subfields including chaotic observers nonlinear local controllability discrete event and hybrid systems neural network learning matrix inequalities Lyapunov exponents and many other issues Proposed and explained by leading researchers they are offered with the intention of generating further work as well as inspiration for many other similar problems which may naturally arise from them With extensive references this book will be a useful reference source as well as an excellent addendum to the textbooks in the area

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