Theory Of Semirings With Applications In Mathematics And Theoretical Computer Science

Semirings and their ApplicationsThe Theory of Semirings with Applications in Mathematics and Theoretical Computer ScienceFuzzy Semirings with Applications to Automata TheorySemirings: Algebraic Theory And Applications In Computer ScienceA Guide to the Literature on Semirings and their Applications in Mathematics and Information SciencesA Short Guide Through the Literature on SemiringsPower Algebras over SemiringsSmarandache Semirings, Semifields, and Semivector SpacesTheorems on Topological Semigroups and SemiringsIn Memoriam : The Collected Scientific PapersIn Memoriam, the Collected Scientific Papers of the Late Alfred Henry GarrodProceedings of the Zoological Society of LondonKyungpook Mathematical JournalThe Collected Scientific Papers of the Late William Alexander Forbes, M.A. ...The Collected Scientific Papers of the Late William Alexander ForbesThe Proceedings of the Scientific Meetings of the Zoological Society of LondonProceedings of the American Mathematical SocietyNew Parallel Algorithms for Direct Solution of Linear EquationsBulletin (new Series) of the American Mathematical SocietyBulletin of the American Mathematical Society Jonathan S. Golan Jonathan S. Golan Javed Ahsan Hanns Joachim Weinert K. Glazek Kazimierz Głazek Jonathan S. Golan W. B. Vasantha Kandasamy John Selden Alfred Henry Garrod Alfred Henry Garrod William Alexander Forbes Forbes Zoological

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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 applicationsin 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 dition 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 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

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

this volume presents a short guide to the extensive literature concerning semir ings 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 dis semination 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 to gether 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 alge braists 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 hav ing 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

this research monograph investigates sets of the form ra where r is a semiring and a is a set with a certain structure such constructs generalise fuzzy and toll algebraic structures which in recent years have shown themselves of importance in engineering and computer science as well as in new mathematical disciplines like idempotent analysis this volume puts much of the ad hoc work of the past decade on a firm mathematical foundation by

creating a unified approach which has important implications in such diverse areas as formal language theory discrete dynamical systems models of optimal control and many others this book also seeks to address the fundamental question posed by höhle and sostak as to what extent basic fields of mathematics like algebra and topology are dependent on the underlying set theory since the development of a new mathematical theory is basically inductive this book begins with a large number of instances which appear in various mathematical contexts and then develops a general abstract framework with many examples which will encourage further study in greater depth audience this work will be of interest to mathematicians whose work involves associative rings and algebras ordered algebraic structures optimal control graph theory fuzzy sets and fuzzy algebraic structures

contains the material formerly published in even numbered issues of the bulletin of the american mathematical society

rather than parallelizing sequential algorithms the authors develop new back substitution free parallel algorithms using a bidirectional elimination technique for the solution of both dense and sparse linear equations they provide full coverage of bidirectional parallel algorithms based on gaussian elimination lu factorization householder reductions and modified gram schmidt orthogonalization givens rotations sparse cholesky factorization and sparse factorization clearly demonstrating how the bidirectional approach allows for improved speedup numerical stability and efficient implementation on multiprocessor systems plus the book offers a useful survey of the vast literature on direct methods introductory material on solving systems of linear equations and exercises it is an invaluable resource for computer scientists researchers in parallel linear algebra and anyone with an interest in parallel programming book jacket

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