

Anil Kumar Kashyap

Near-Rings and Applications

Some Contributions to Near-Ring Theory



Near Rings

J. D. P. Meldrum

Near Rings:

Near-rings and Their Links with Groups J. D. P. Meldrum,1985 Near-Rings and Near-Fields G. Betsch,2011-09-22 Most topics in near ring and near field theory are treated here along with an extensive introduction to the theory There are two invited lectures Non Commutative Geometry Near Rings and Near Fields which indicates the relevance of near rings and near fields for geometry while Pseudo Finite Near Fields shows the impressive power of model theoretic methods The remaining papers cover such topics as D G near rings radical theory KT near fields matrix near rings and applications to systems theory Near-rings: The Theory and its Applications ,2011-10-10 Near rings The Theory and its Applications

Near-Rings and Near-Fields Yuen Fong, Howard E. Bell, Wen-Fong Ke, Gordon Mason, G.F. Pilz, 2012-12-06 Near Rings and Near Fields opens with three invited lectures on different aspects of the history of near ring theory. These are followed by 26 papers reflecting the diversity of the subject in regard to geometry topological groups automata coding theory and probability as well as the purely algebraic structure theory of near rings Audience Graduate students of mathematics and algebraists interested in near ring theory The Theory of Near-Rings Robert Lockhart, 2021-11-14 This book offers an original account of the theory of near rings with a considerable amount of material which has not previously been available in book form some of it completely new The book begins with an introduction to the subject and goes on to consider the theory of near fields transformation near rings and near rings hosted by a group The bulk of the chapter on near fields has not previously been available in English The transformation near rings chapters considerably augment existing knowledge and the chapters on product hosting are essentially new Other chapters contain original material on new classes of near rings and non abelian group cohomology The Theory of Near Rings will be of interest to researchers in the subject and more broadly ring and representation theorists The presentation is elementary and self contained with the necessary background Rings, Groups, and Algebras X. H. Cao, 2020-12-22 Integrates in group and ring theory available in standard references and summarizes the most significant developments made by Chinese mathematicians in rings groups and algebras since the 1950s Presents both survey articles and recent research results Examines important topics in Hopf algebra representation theory semigroups finite groups homology algebra module theory valuation theory and more Bilagebraic Structures and Smarandache Bialgebraic Structures W. B. Vasantha Kandasamy, 2003-01-01 Generally the study of algebraic structures deals with the concepts like groups semigroups groupoids loops rings near rings semirings and vector spaces The study of bialgebraic structures deals with the study of bistructures like bigroups biloops bigroupoids bisemigroups birings binear rings bisemirings and bivector spaces A complete study of these bialgebraic structures and their Smarandache analogues is carried out in this book For examples A set S with two binary operations and is called a bisemigroup of type II if there exists two proper subsets S1 and S2 of S such that S S1 U S2 and S1 is a semigroup S2 is a semigroup Let S be a bisemigroup We call S a Smarandache bisemigroup S bisemigroup if S has a proper subset P such that P is a bigroup under the operations of

S Let L be a non empty set with two binary operations L is said to be a biloop if L has two nonempty finite proper subsets L1 and L2 of L such that L L1 U L2 and L1 is a loop L2 is a loop or a group Let L be a biloop we call L a Smarandache biloop S biloop if L has a proper subset P which is a bigroup Let G be a non empty set We call G a bigroupoid if G G1 U G2 and satisfies the following G1 is a groupoid i e the operation is non associative G2 is a semigroup Let G be a non empty set with G G1 U G2 we call G a Smarandache bigroupoid S bigroupoid if G1 and G2 are distinct proper subsets of G such that G G1 U G2 neither G1 nor G2 are included in each other G1 is a S groupoid G2 is a S semigroup A nonempty set R with two binary operations and is said to be a biring if R R1 U R2 where R1 and R2 are proper subsets of R and R1 is a ring R2 is a ring A Smarandache biring S biring R is a non empty set with two binary operations and such that R R1 U R2 where R1 and R2 are proper subsets of R and R1 is a S ring R2 is a S ring **Radical Theory of Rings** J.W. Gardner, R. Wiegandt, 2003-11-19 Radical Theory of Rings distills the most noteworthy present day theoretical topics gives a unified account of the classical structure theorems for rings and deepens understanding of key aspects of ring theory via ring and radical constructions Assimilating radical theory s evolution in the decades since the last major work on rings and radicals was published the authors deal with some distinctive features of the radical theory of nonassociative rings associative rings with involution and near rings Written in clear algebraic terms by globally acknowledged authorities the presentation includes more than 500 landmark and up to date references providing direction for further research Rings and Nearrings Mikhail Chebotar, Yuen Fong, Weng-Fong Ke, Pjek-Hwee Lee, 2011-12-22 This volume consists of seven papers related in various matters to the research work of Kostia Beidar a distinguished ring theorist and professor of National Ching Kung University NCKU Written by leading experts in these areas the papers also emphasize important applications to other fields of mathematics Most papers are based on talks that were presented at the memorial conference which was held in March 2005 at NCKU

Nearrings, Nearfields and K-Loops Gerhard Saad, Momme Johs Thomsen, 2012-12-06 This present volume is the Proceedings of the 14th International Conference on Near rings and Nearfields held in Hamburg at the Universitiit der Bundeswehr Hamburg from July 30 to August 06 1995 This Conference was attended by 70 mathematicians and many accompanying persons who represented 22 different countries from all five continents Thus it was the largest conference devoted entirely to nearrings and nearfields The first of these conferences took place in 1968 at the Mathematische For schungsinstitut Oberwolfach Germany This was also the site of the conferences in 1972 1976 1980 and 1989 The other eight conferences held before the Hamburg Conference took place in eight different countries For details about this and more over for a general historical overview of the development of the subject we refer to the article On the beginnings and development of near ring theory by G Betsch 3 During the last forty years the theory of nearrings and related algebraic struc tures like nearfields nearmodules nearalgebras and seminearrings has developed into an extensive branch of algebra with its own features In its position between group theory and ring theory this relatively young branch of algebra has not only a close

relationship to these two more well known areas of algebra but it also has just as these two theories very intensive connections to many further branches of mathematics *Nearrings, Nearfields And Related Topics* Kuncham Syam Prasad, Kedukodi Babushri Srinivas, Panackal Harikrishnan, Bhavanari Satyanarayana, Kent Neuerburg, G. L. Booth, Bijan Davvaz, Mark Farag, S Juglal, Ayman Badawi, 2016-11-28 Recent developments in various algebraic structures and the applications of those in different areas play an important role in Science and Technology One of the best tools to study the non linear algebraic systems is the theory of Near rings The forward note by G Smarandache Fuzzy Algebra W. B. Vasantha Kandasamy, 2003 The author studies the Smarandache Fuzzy Algebra which like its predecessor Fuzzy Algebra arose from the need to define structures that were more compatible with the real world where the grey areas mattered not only black or white In any human field a Smarandache n structure on a set S means a weak structure w 0 on S such that there exists a chain of proper subsets P n 1 in P n 2 in in P 2 in P 1 in S whose corresponding structures verify the chain w n 1 includes w n 2 includes includes w 2 includes w 1 includes w 0 where includes signifies strictly stronger i e structure satisfying more axioms This book is referring to a Smarandache 2 algebraic structure two levels only of structures in algebra on a set S i e a weak structure w 0 on S such that there exists a proper subset P of S which is embedded with a stronger structure w 1 Properties of Smarandache fuzzy semigroups groupoids loops bigroupoids biloops non associative rings birings vector spaces semirings semivector spaces non associative semirings bisemirings near rings non associative near ring and binear rings are presented in the second part of this book together with examples solved and unsolved problems and theorems Also applications of Smarandache groupoids near rings and semirings in automaton theory in error correcting codes and in the construction of S sub biautomaton can be found in the last chapter Rings and Radicals R. Wiegandt, J.W. Gardner, Shao-Xue Liu, 1996-04-18 First published in 1996 Routledge is an imprint of Taylor Francis an informa company

Nearrings and Nearfields Hubert Kiechle, Alexander Kreuzer, Momme Johs Thomsen, 2005-04-19 The present volume is the Proceedings of the 18th International Conference on Nearrings and Nearfields held at the Helmut Schmidt Universit t Universit t der Bundeswehr Hamburg from July 27 August 3 2003 It contains the written versions of the lectures by the five invited speakers These concern recent developments of planar nearrings nearrings of mappings group nearrings and loop nearrings One of them is a long and very substantial research paper The Z Constrained Conjecture They are followed by 13 contributions reflecting the diversity of the subject of nearrings and related structures Besides the purely algebraic structure theory these papers show many connections of nearring theory with group theory combinatorics geometries and topology They all contain original research

Encyclopaedia of Mathematics Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of

articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete Combinatorics '86 M. Marchi, A. Barlotti, G. Tallini, 2011-09-22 Recent developments in problems results and techniques all aspects of combinatorial and incidence geometry are covered in this volume including their links with the foundations of geometry graph theory and algebraic structures and the applications to coding theory and computer science Topics covered include Galois geometries blocking sets affine and projective planes incidence structures and their automorphism groups Matroids graph theory and designs are also treated along with weak algebraic structures such as near rings near fields quasi groups loops hypergroups etc and permutation sets and groups The vitality of combinatorics today lies in its important interactions with computer science The problems which arise are of a varied nature and suitable techniques to deal with them have to be devised for each situation one of the special features of combinatorics is the often sporadic nature of solutions stemming from its links with number theory The branches of combinatorics are many and various and all of them are represented in the 56 papers in this volume Computer Algebra J. Calmet, 1982-10-08 Canadian Mathematical Bulletin ,1992-12 Nonassociative Near-rings Veljko Vuković,1996 Proceedings of First International Conference on Mathematical Modeling and Computational Science Sheng-Lung Peng, Rong-Xia Hao, Souvik Pal, 2021-05-04 This book presents the most recent scientific and technological advances in the fields of engineering mathematics and computational science to strengthen the links in the scientific community It is a collection of high quality peer reviewed research papers presented at the First International Conference on Mathematical Modeling and Computational Science ICMMCS 2020 held in Pattaya Thailand during 14 15 August 2020 The topics covered in the book are mathematical logic and foundations numerical analysis neural networks fuzzy set theory coding theory higher algebra number theory graph theory and combinatory computation in complex networks calculus differential educations and integration application of soft computing knowledge engineering machine learning artificial intelligence big data and data analytics high performance computing network and device security and Internet of things IoT

The Enigmatic Realm of **Near Rings**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Near Rings** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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