



Algorithms for Finite Near-rings and their N -groups

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In this note, we present algorithms to deal with finite near-rings, the appropriate algebraic structure to study non-linear functions on finite groups. Just as rings (of matrices) operate on vector spaces, near-rings operate on groups. In our approach, we have developed efficient algorithms for a variety of problems that involve the structure of the operation of a near-ring on a group. From this, we retrieve information about the near-ring itself.

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1. Introduction

CONVENTION 1.1. *All algebraic structures in this paper are finite.*

Important examples of rings are matrix-rings; these arise as linear mappings on vector spaces. In the present note, we compute with algebraic structures appropriate for dealing with non-linear mappings, namely near-rings (Pilz, 1983; Meldrum, 1985; Clay, 1992).

DEFINITION 1.1. A set N together with two binary operations $+$ and $\cdot$ is called a (right) near-ring if:

- (1) $(N, +)$ is a (not necessarily abelian) group,
- (2) $(N, \cdot)$ is a semigroup,
- (3) $\cdot$ is right distributive over $+$, i.e.
 $\forall a, b, c \in N: (a + b) \cdot c = a \cdot c + b \cdot c$.

The equality $f0 = 0$ for $f \in N$ is not implied by these axioms.

DEFINITION 1.2. The zero-symmetric part of a near-ring N is usually denoted by N_0 and defined by $N_0 := \{f \in N \mid f0 = 0\}$. Also, both the elements of N_0 and any near-ring that fulfills $N = N_0$ are called zero-symmetric. A near-ring with commutative addition is called abelian.

Note that the missing left distributive law, $a(b+c) = ab+ac$, has to do with linearity if a is considered as a function. In fact, functions on groups are the typical examples of near-rings. Let Γ be a group, and let $M(\Gamma)$ be the set of all mappings from Γ into Γ (we will call them *transformations*). We define $+$ and $\cdot$ on $M(\Gamma)$ by $(f+g)(\gamma) := f(\gamma) + g(\gamma)$ and

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Near Rings And Their Links With Groups

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Table of Contents Near Rings And Their Links With Groups

1. Understanding the eBook Near Rings And Their Links With Groups
 - The Rise of Digital Reading Near Rings And Their Links With Groups
 - Advantages of eBooks Over Traditional Books
2. Identifying Near Rings And Their Links With Groups
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Near Rings And Their Links With Groups
 - User-Friendly Interface
4. Exploring eBook Recommendations from Near Rings And Their Links With Groups
 - Personalized Recommendations
 - Near Rings And Their Links With Groups User Reviews and Ratings
 - Near Rings And Their Links With Groups and Bestseller Lists
5. Accessing Near Rings And Their Links With Groups Free and Paid eBooks
 - Near Rings And Their Links With Groups Public Domain eBooks
 - Near Rings And Their Links With Groups eBook Subscription Services
 - Near Rings And Their Links With Groups Budget-Friendly Options
6. Navigating Near Rings And Their Links With Groups eBook Formats

- ePub, PDF, MOBI, and More
- Near Rings And Their Links With Groups Compatibility with Devices
- Near Rings And Their Links With Groups Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Near Rings And Their Links With Groups
 - Highlighting and Note-Taking Near Rings And Their Links With Groups
 - Interactive Elements Near Rings And Their Links With Groups
- 8. Staying Engaged with Near Rings And Their Links With Groups
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Near Rings And Their Links With Groups
- 9. Balancing eBooks and Physical Books Near Rings And Their Links With Groups
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Near Rings And Their Links With Groups
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Near Rings And Their Links With Groups
 - Setting Reading Goals Near Rings And Their Links With Groups
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Near Rings And Their Links With Groups
 - Fact-Checking eBook Content of Near Rings And Their Links With Groups
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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