

ADVANCES IN MATHEMATICS

# *Commutative Semigroups*

*P.A. Grillet*

Springer-Science+Business Media, B.V.

# Commutative Semigroups

**K. P. Shum**



## **Commutative Semigroups:**

**Commutative Semigroups** P.A. Grillet, 2001-07-31 This is the first book about commutative semigroups in general. Emphasis is on structure but the other parts of the theory are at least surveyed and a full set of about 850 references is included. The book is intended for mathematicians who do research on semigroups or who encounter commutative semigroups in their research.

**Special Classes of Semigroups** Attila Nagy, 2001-05-31 In semigroup theory there are certain kinds of band decompositions which are very useful in the study of the structure of semigroups. There are a number of special semigroup classes in which these decompositions can be used very successfully. The book focuses attention on such classes of semigroups. Some of them are partially discussed in earlier books but in the last thirty years new semigroup classes have appeared and a fairly large body of material has been published on them. The book provides a systematic review on this subject. The first chapter is an introduction. The remaining chapters are devoted to special semigroup classes. These are Putcha semigroups, commutative semigroups, weakly commutative semigroups, R-commutative semigroups, conditionally commutative semigroups, RC-commutative semigroups, quasi-commutative semigroups, medial semigroups, right commutative semigroups, externally commutative semigroups,  $E_m$  semigroups,  $WE_m$  semigroups, weakly exponential semigroups,  $m \times n$  commutative semigroups, and  $n^2$  permutable semigroups. Audience: Students and researchers working in algebra and computer science.

**Exponential Polynomials on Commutative Semigroups** Jeremy Judah Stone, 1960

**Special Classes of Semigroups** A. Nagy, 2013-11-11 In semigroup theory there are certain kinds of band decompositions which are very useful in the study of the structure of semigroups. There are a number of special semigroup classes in which these decompositions can be used very successfully. The book focuses attention on such classes of semigroups. Some of them are partially discussed in earlier books but in the last thirty years new semigroup classes have appeared and a fairly large body of material has been published on them. The book provides a systematic review on this subject. The first chapter is an introduction. The remaining chapters are devoted to special semigroup classes. These are Putcha semigroups, commutative semigroups, weakly commutative semigroups, R-commutative semigroups, conditionally commutative semigroups, RC-commutative semigroups, quasi-commutative semigroups, medial semigroups, right commutative semigroups, externally commutative semigroups,  $E_m$  semigroups,  $WE_m$  semigroups, weakly exponential semigroups,  $m \times n$  commutative semigroups, and  $n^2$  permutable semigroups. Audience: Students and researchers working in algebra and computer science.

*The Theory of Finitely Generated Commutative Semigroups* L. Rédei, 2014-07-10 The Theory of Finitely Generated Commutative Semigroups describes a theory of finitely generated commutative semigroups which is founded essentially on a single fundamental theorem and exhibits resemblance in many respects to the algebraic theory of numbers. The theory primarily involves the investigation of the  $F$ -congruences.  $F$  is the free semimodule of the rank  $n$  where  $n$  is a given natural number. As applications several important special cases are given. This volume is comprised of five chapters and begins with

preliminaries on finitely generated commutative semigroups before turning to a discussion of the problem of determining all the  $F$  congruences as the fundamental problem of the proposed theory The next chapter lays down the foundations of the theory by defining the kernel functions and the fundamental theorem The elementary properties of the kernel functions are then considered along with the ideal theory of free semimodules of finite rank The final chapter deals with the isomorphism problem of the theory which is solved by reducing it to the determination of the equivalent kernel functions This book should be of interest to mathematicians as well as students of pure and applied mathematics

**The Theory of Finitely Generated Commutative Semigroups** László Rédei, 1965 The theory of semigroups is in a rather mosaic like state not lacking in beautiful and important investigations but with many fields requiring further study It is the absence of a theory of finitely generated commutative semigroups which is the aim of the present monograph to create such a theory

The Cohomology of Commutative Semigroups Pierre Antoine Grillet, 2022-09-28 This book provides an organized exposition of the current state of the theory of commutative semigroup cohomology a theory which was originated by the author and has matured in the past few years The work contains a fundamental scientific study of questions in the theory The various approaches to commutative semigroup cohomology are compared The problems arising from definitions in higher dimensions are addressed Computational methods are reviewed The main application is the computation of extensions of commutative semigroups and their classification Previously the components of the theory were scattered among a number of research articles This work combines all parts conveniently in one volume It will be a valuable resource for future students of and researchers in commutative semigroup cohomology and related areas

**Commutative Semigroup Rings** Robert Gilmer, 1984-03-15 Commutative Semigroup Rings was the first exposition of the basic properties of semigroup rings Gilmer concentrates on the interplay between semigroups and rings thereby illuminating both of these important concepts in modern algebra

**Semigroups** Pierre A. Grillet, 1995-08-08 This work offers concise coverage of the structure theory of semigroups It examines constructions and descriptions of semigroups and emphasizes finite commutative regular and inverse semigroups Many structure theorems on regular and commutative semigroups are introduced College or university bookstores may order five or more copies at a special student price which is available upon request from Marcel Dekker Inc

*Real Commutative Semigroups on the Plane* James Grady Horne, 1961

**Representations of Commutative Semitopological Semigroups** C.F. Dunkl, D.E. Ramirez, 2006-11-15

*Semigroups and Their Subsemigroup Lattices* L.N. Shevrin, A.J. Ovsyannikov, 2013-03-09 0 1 General remarks For any algebraic system  $A$  the set  $\text{Sub}A$  of all subsystems of  $A$  partially ordered by inclusion forms a lattice This is the subsystem lattice of  $A$  In certain cases such as that of semigroups in order to have the right always to say that  $\text{Sub}A$  is a lattice we have to treat the empty set as a subsystem The study of various inter relationships between systems and their subsystem lattices is a rather large field of investigation developed over many years This trend was formed first in group theory basic relevant information up to the early seventies is contained in the book

Suz and the surveys K Pek St Sad 2 Ar Sad there is also a quite recent book Schm 2 As another inspiring source one should point out a branch of mathematics to which the book Baer was devoted One of the key objects of examination in this branch is the subspace lattice of a vector space over a skew field A more general approach deals with modules and their submodule lattices Examining subsystem lattices for the case of modules as well as for rings and algebras both associative and non associative in particular Lie algebras began more than thirty years ago there are results on this subject also for lattices Boolean algebras and some other types of algebraic systems both concrete and general A lot of works including several surveys have been published here

Extending Characters on Commutative Semigroups Catherine Janice Hammer,1968  
Congruences in Commutative Semigroups Yoram Hirshfeld,1994      **Exponential Polynomials on Commutative Semigroups** Jeremy Judah Stone,Stanford University. Applied Mathematics and Statistics Laboratory,1960      On Finite Commutative Semigroups Having a Group-like Property Richard Laham Gantos,1965      **Nearly Commutative Semigroups** Jianmin Liu,1974      *Characters of Commutative Semigroups* Ronald Owen Fulp,1965      **Introduction to Semigroups** Mario Petrich,1973      **Nearly Commutative Semigroups** Chien-Min Liu,1974

This book delves into Commutative Semigroups. Commutative Semigroups is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Commutative Semigroups, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Commutative Semigroups
- Chapter 2: Essential Elements of Commutative Semigroups
- Chapter 3: Commutative Semigroups in Everyday Life
- Chapter 4: Commutative Semigroups in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Commutative Semigroups. The first chapter will explore what Commutative Semigroups is, why Commutative Semigroups is vital, and how to effectively learn about Commutative Semigroups.
3. In chapter 2, this book will delve into the foundational concepts of Commutative Semigroups. The second chapter will elucidate the essential principles that need to be understood to grasp Commutative Semigroups in its entirety.
4. In chapter 3, this book will examine the practical applications of Commutative Semigroups in daily life. This chapter will showcase real-world examples of how Commutative Semigroups can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Commutative Semigroups in specific contexts. This chapter will explore how Commutative Semigroups is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Commutative Semigroups. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Commutative Semigroups.

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## Table of Contents Commutative Semigroups

1. Understanding the eBook Commutative Semigroups
  - The Rise of Digital Reading Commutative Semigroups
  - Advantages of eBooks Over Traditional Books
2. Identifying Commutative Semigroups
  - 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 Commutative Semigroups
  - User-Friendly Interface
4. Exploring eBook Recommendations from Commutative Semigroups
  - Personalized Recommendations
  - Commutative Semigroups User Reviews and Ratings
  - Commutative Semigroups and Bestseller Lists
5. Accessing Commutative Semigroups Free and Paid eBooks
  - Commutative Semigroups Public Domain eBooks
  - Commutative Semigroups eBook Subscription Services
  - Commutative Semigroups Budget-Friendly Options
6. Navigating Commutative Semigroups eBook Formats
  - ePub, PDF, MOBI, and More
  - Commutative Semigroups Compatibility with Devices
  - Commutative Semigroups Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Commutative Semigroups
  - Highlighting and Note-Taking Commutative Semigroups
  - Interactive Elements Commutative Semigroups
8. Staying Engaged with Commutative Semigroups

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Commutative Semigroups
9. Balancing eBooks and Physical Books Commutative Semigroups
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Commutative Semigroups
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Commutative Semigroups
    - Setting Reading Goals Commutative Semigroups
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Commutative Semigroups
    - Fact-Checking eBook Content of Commutative Semigroups
    - 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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