

## EQUATIONAL BASES AND NONMODULAR LATTICE VARIETIES<sup>(1)</sup>

BY

RALPH MCKENZIE

**ABSTRACT.** This paper is focused on equational theories and equationally defined varieties of lattices which are not assumed to be modular. It contains both an elementary introduction to the subject and a survey of open problems and recent work. The concept of a "splitting" of the lattice of lattice theories is defined here for the first time in print. These splittings are shown to correspond bi-uniquely with certain finite lattices, called "splitting lattices". The problems of recognizing whether a given finite lattice is a splitting lattice, whether it can be embedded into a free lattice, and whether a given interval in a free lattice is atomic are shown to be closely related and algorithmically solvable. Finitely generated projective lattices are characterized as being those finitely generated lattices that can be embedded into a free lattice.

**Introduction.** What we do in this paper is fairly described by the phrase "equational model theory of lattices." We take this in a broad sense, as the study of lattices and their equational theories, with particular emphasis on finding connections relating algebraic properties of lattices to various properties of their theories. Since many interesting properties of lattice theories can be defined abstractly, purely by reference to the lattice of all such theories, we are naturally led to investigate the structure of  $\mathfrak{L}_l$ , the lattice of all equational theories of lattices.

Recent studies in this largely unexplored field have been greatly stimulated by a paper of Bjarni Jónsson [6]. The central result of that paper ([6, Corollary 3.2], stated below as Lemma 1.4) has already found a number of applications, in the original paper as well as in [1], [7], [9] and the present paper.

Broadly speaking, Jónsson's result tells us that the cords binding lattices to their theories are much more tightly drawn than one would expect on the basis of experience with other equationally defined classes of algebras, such as groups and rings. The happy consequences of this fact, both for the algebraic and the equational study of lattices, will hardly be exhausted by the present paper; and we expect other researchers to take up the challenge. To that end, we have given

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# Nonmodular Lattice Varieties

**Xiang Xie**



## **Nonmodular Lattice Varieties:**

*Nonmodular Lattice Varieties* Henry Rose, 1984 It is shown that there are eight infinite sequences of join irreducible lattice varieties with the following properties each term of every sequence has the next term as its unique join irreducible cover The description of these sequences is based on a detailed study of subdirectly irreducible lattices with the unique critical quotients *Varieties of Lattices* Peter Jipsen, Henry Rose, 2006-11-15 The study of lattice varieties is a field that has experienced rapid growth in the last 30 years but many of the interesting and deep results discovered in that period have so far only appeared in research papers The aim of this monograph is to present the main results about modular and nonmodular varieties equational bases and the amalgamation property in a uniform way The first chapter covers preliminaries that make the material accessible to anyone who has had an introductory course in universal algebra Each subsequent chapter begins with a short historical introduction which cites the original references and then presents the results with complete proofs in nearly all cases Numerous diagrams illustrate the beauty of lattice theory and aid in the visualization of many proofs An extensive index and bibliography also make the monograph a useful reference work

*Algebras, Lattices, Varieties* Ralph S. Freese, Ralph N. McKenzie, George F. McNulty, Walter F. Taylor, 2022-11-03 This book is the third of a three volume set of books on the theory of algebras a study that provides a consistent framework for understanding algebraic systems including groups rings modules semigroups and lattices Volume I first published in the 1980s built the foundations of the theory and is considered to be a classic in this field The long awaited volumes II and III are now available Taken together the three volumes provide a comprehensive picture of the state of art in general algebra today and serve as a valuable resource for anyone working in the general theory of algebraic systems or in related fields The two new volumes are arranged around six themes first introduced in Volume I Volume II covers the Classification of Varieties Equational Logic and Rudiments of Model Theory and Volume III covers Finite Algebras and their Clones Abstract Clone Theory and the Commutator These topics are presented in six chapters with independent expositions but are linked by themes and motifs that run through all three volumes **Free Lattices** Ralph S. Freese, Jaroslav Ježek, James Bryant Nation, 1995 A thorough treatment of free lattices including such aspects as Whitman's solution to the word problem bounded monomorphisms and related concepts totally atomic elements infinite intervals computation term rewrite systems and varieties Includes several results that are new or have not been previously published Annotation copyright by Book News Inc Portland OR *The Dilworth Theorems* Bogart, Kung, Freese, 2013-11-22 **Ordered Sets and Lattices II**, This indispensable reference source contains a wealth of information on lattice theory The book presents a survey of virtually everything published in the fields of partially ordered sets semilattices lattices and Boolean algebras that was reviewed in Referativnyi Zhurnal Matematika from mid 1982 to the end of 1985 A continuation of a previous volume the English translation of which was published by the AMS in 1989 as volume 141 in Translations Series 2 this comprehensive work

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**Lattice Theory: Special Topics and Applications** George Grätzer, Friedrich Wehrung, 2016-10-08 George Grätzer's Lattice Theory Foundation is his third book on lattice theory General Lattice Theory 1978 second edition 1998 In 2009 Grätzer considered updating the second edition to reflect some exciting and deep developments He soon realized that to lay the foundation to survey the contemporary field to pose research problems would require more than one volume and more than one person So Lattice Theory Foundation provided the foundation Now we complete this project with Lattice Theory Special Topics and Applications in two volumes written by a distinguished group of experts to cover some of the vast areas not in Foundation This second volume is divided into ten chapters contributed by K Adaricheva N Caspard R Freese P Jipsen J B Nation N Reading H Rose L Santocanale and F Wehrung

Proceedings of the International Conference on Algebra Dedicated to the Memory of A. I. Mal'cev Leonid A. Bokut', A. I. Kostrikin, 1992

**Lattice Varieties Covering the Smallest Non-modular Variety** Bjarni Jónsson, Ivan Rival, 1976

The Structure of Modular Lattices of Width Four with Applications to Varieties of Lattices Ralph S. Freese, 1977 A variety equational class of lattices is said to be finitely based if there exists a finite set of identities defining the variety Let  $\mathcal{M}_n$  denote the lattice variety generated by all modular lattices of width not exceeding  $n$   $\mathcal{M}_1$  and  $\mathcal{M}_2$  are both the class of all distributive lattices and consequently finitely based B Jónsson has shown that  $\mathcal{M}_3$  is also finitely based On the other hand K Baker has shown that  $\mathcal{M}_n$  is not finitely based for  $5 \leq n$  This paper settles the finite bases problem for  $\mathcal{M}_4$

**Lattice Theory and Its Applications** Kirby A. Baker, Rudolf Wille, 1995

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## **Table of Contents Nonmodular Lattice Varieties**

1. Understanding the eBook Nonmodular Lattice Varieties
  - The Rise of Digital Reading Nonmodular Lattice Varieties
  - Advantages of eBooks Over Traditional Books
2. Identifying Nonmodular Lattice Varieties
  - 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 a Nonmodular Lattice Varieties
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nonmodular Lattice Varieties
  - Personalized Recommendations
  - Nonmodular Lattice Varieties User Reviews and Ratings
  - Nonmodular Lattice Varieties and Bestseller Lists
5. Accessing Nonmodular Lattice Varieties Free and Paid eBooks
  - Nonmodular Lattice Varieties Public Domain eBooks
  - Nonmodular Lattice Varieties eBook Subscription Services

- Nonmodular Lattice Varieties Budget-Friendly Options
- 6. Navigating Nonmodular Lattice Varieties eBook Formats
  - ePub, PDF, MOBI, and More
  - Nonmodular Lattice Varieties Compatibility with Devices
  - Nonmodular Lattice Varieties Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nonmodular Lattice Varieties
  - Highlighting and Note-Taking Nonmodular Lattice Varieties
  - Interactive Elements Nonmodular Lattice Varieties
- 8. Staying Engaged with Nonmodular Lattice Varieties
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nonmodular Lattice Varieties
- 9. Balancing eBooks and Physical Books Nonmodular Lattice Varieties
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nonmodular Lattice Varieties
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Nonmodular Lattice Varieties
  - Setting Reading Goals Nonmodular Lattice Varieties
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nonmodular Lattice Varieties
  - Fact-Checking eBook Content of Nonmodular Lattice Varieties
  - 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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