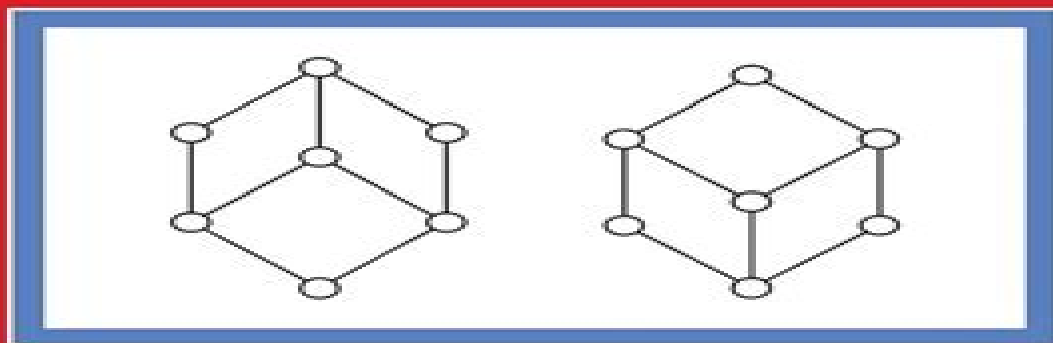


# SEMIMODULAR LATTICES

**Theory and Applications**

MANFRED STERN



# Semimodular Lattices Theory And Applications

**Sándor Dominich**



## **Semimodular Lattices Theory And Applications:**

**Semimodular Lattices**, 2013-12-01      Semimodular Lattices Manfred Stern, 1999 In *Semimodular Lattices Theory and Applications* Manfred Stern uses successive generalizations of distributive and modular lattices to outline the development of semimodular lattices from Boolean algebras He focuses on the important theory of semimodularity its many ramifications and its applications in discrete mathematics combinatorics and algebra The book surveys and analyzes Garrett Birkhoff's concept of semimodularity and the various related concepts in lattice theory and it presents theoretical results as well as applications in discrete mathematics group theory and universal algebra The author also deals with lattices that are close to semimodularity or can be combined with semimodularity e g supersolvable admissible consistent strong and balanced lattices Researchers in lattice theory discrete mathematics combinatorics and algebra will find this book invaluable      *Semimodular Lattices* Manfred Stern, 1999-05-13 In *Semimodular Lattices* Manfred Stern uses successive generalizations of distributive and modular lattices to outline the development of semimodular lattices from Boolean algebras He focuses on the important theory of semimodularity its many ramifications and its applications in discrete mathematics combinatorics and algebra The book surveys and analyzes Garrett Birkhoff's concept of semimodularity and the various related concepts in lattice theory and it presents theoretical results as well as applications in discrete mathematics group theory and universal algebra Researchers in lattice theory discrete mathematics combinatorics and algebra will find this book valuable      Lattice Theory: Special Topics and Applications George Grätzer, Friedrich Wehrung, 2014-08-27 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* written by a distinguished group of experts to cover some of the vast areas not in *Foundation* This first volume is divided into three parts Part I *Topology and Lattices* includes two chapters by Klaus Keimel Jimmie Lawson and Ales Pultr Jiri Sichler Part II *Special Classes of Finite Lattices* comprises four chapters by Gabor Czedli George Grätzer and Joseph P S Kung Part III *Congruence Lattices of Infinite Lattices and Beyond* includes four chapters by Friedrich Wehrung and George Grätzer      **General Lattice Theory** George Grätzer, 2002-11-21 Grätzer's *General Lattice Theory* has become the lattice theorist's bible Now we have the second edition in which the old testament is augmented by a new testament The new testament gospel is provided by leading and acknowledged experts in their fields This is an excellent and engaging second edition that will long remain a standard reference **MATHEMATICAL REVIEWS**      **Combinatorics: The Rota Way** Joseph P. S. Kung, Gian-Carlo Rota, Catherine H. Yan, 2009-02-09 Compiled and edited by two of Gian Carlo Rota's students this book is based on notes from his influential combinatorics courses      *Formal Concept Analysis* Peggy Cellier, Felix Distel, Bernhard

Ganter,2013-05-14 This book constitutes the refereed proceedings of the 11th International Conference on Formal Concept Analysis ICFCA 2013 held in Dresden Germany in May 2013 The 15 regular papers presented in this volume were carefully reviewed and selected from 46 submissions The papers present current research from a thriving theoretical community and a rapidly expanding range of applications in information and knowledge processing including data visualization and analysis mining knowledge management as well as Web semantics and software engineering In addition the book contains a reprint of the first publication in english describing the seminal stem base construction by Guigues and Duquenne and a position paper pointing out potential future applications of FCA **The Modern Algebra of Information Retrieval** Sándor

Dominich,2008-04-03 This book takes a unique approach to information retrieval by laying down the foundations for a modern algebra of information retrieval based on lattice theory All major retrieval methods developed so far are described in detail along with Web retrieval algorithms and the author shows that they all can be treated elegantly in a unified formal way using lattice theory as the one basic concept The book s presentation is characterized by an engineering like approach

General Lattice Theory G. Grätzer,2012-12-06 In the first half of the nineteenth century George Boole s attempt to formalize propositional logic led to the concept of Boolean algebras While investigating the axiomatics of Boolean algebras at the end of the nineteenth century Charles S Peirce and Ernst Schr der found it useful to introduce the lattice concept Independently Richard Dedekind s research on ideals of algebraic numbers led to the same discovery In fact Dedekind also introduced modularity a weakened form of distributivity Although some of the early results of these mathematicians and of Edward V Huntington are very elegant and far from trivial they did not attract the attention of the mathematical community It was Garrett Birkhoff s work in the mid thirties that started the general development of lattice theory In a brilliant series of papers he demonstrated the importance of lattice theory and showed that it provides a unifying framework for hitherto unrelated developments in many mathematical disciplines Birkhoff himself Valere Glivenko Karl Menger John von Neumann Oystein Ore and others had developed enough of this new field for Birkhoff to attempt to sell it to the general mathematical community which he did with astonishing success in the first edition of his Lattice Theory The further development of the subject matter can best be followed by comparing the first second and third editions of his book G Birkhoff 1940 1948 and 1967

*Graphs in Perturbation Theory* Michael Borinsky,2018-11-04 This book is the first systematic study of graphical enumeration and the asymptotic algebraic structures in perturbative quantum field theory Starting with an exposition of the Hopf algebra structure of generic graphs it reviews and summarizes the existing literature It then applies this Hopf algebraic structure to the combinatorics of graphical enumeration for the first time and introduces a novel method of asymptotic analysis to answer asymptotic questions This major breakthrough has combinatorial applications far beyond the analysis of graphical enumeration The book also provides detailed examples for the asymptotics of renormalizable quantum field theories which underlie the Standard Model of particle physics A deeper analysis of such renormalizable field theories

reveals their algebraic lattice structure The pedagogical presentation allows readers to apply these new methods to other problems making this thesis a future classic for the study of asymptotic problems in quantum fields network theory and far beyond

**Lattices and Ordered Sets** Steven Roman, 2008-12-15 This book is intended to be a thorough introduction to the subject of order and lattices with an emphasis on the latter It can be used for a course at the graduate or advanced undergraduate level or for independent study Prerequisites are kept to a minimum but an introductory course in abstract algebra is highly recommended since many of the examples are drawn from this area This is a book on pure mathematics I do not discuss the applications of lattice theory to physics computer science or other disciplines Lattice theory began in the early 1890s when Richard Dedekind wanted to know the answer to the following question Given three subgroups  $E$ ,  $F$  and  $G$  of an abelian group  $K$  what is the largest number of distinct subgroups that can be formed using these subgroups and the operations of intersection and sum join as in  $E \cap F$ ,  $E \cap F \cap G$ ,  $E \cap F \cap G$  and so on In lattice theoretic terms this is the number of elements in the relatively free modular lattice on three generators Dedekind answered this question the answer is 15 and wrote two papers on the subject of lattice theory but then the subject lay relatively dormant until Garrett Birkhoff Oystein Ore and others picked it up in the 1930s Since then many noted mathematicians have contributed to the subject including Garrett Birkhoff Richard Dedekind Israel Gelfand George Grätzer Aleksandr Kurosh Anatoly Malcev Oystein Ore Gian Carlo Rota Alfred Tarski and Johnny von Neumann

**Surveys on Discrete and Computational Geometry** Jacob E. Goodman, 2008 This volume contains nineteen survey papers describing the state of current research in discrete and computational geometry as well as a set of open problems presented at the 2006 AMS IMS SIAM Summer Research Conference Discrete and Computational Geometry Twenty Years Later held in Snowbird Utah in June 2006 Topics surveyed include metric graph theory lattice polytopes the combinatorial complexity of unions of geometric objects line and pseudoline arrangements algorithmic semialgebraic geometry persistent homology unfolding polyhedra pseudo triangulations nonlinear computational geometry  $k$  sets and the computational complexity of convex bodies

**Lattice Theory: Foundation** George Grätzer, 2011-02-14 This book started with Lattice Theory First Concepts in 1971 Then came General Lattice Theory First Edition in 1978 and the Second Edition twenty years later Since the publication of the first edition in 1978 General Lattice Theory has become the authoritative introduction to lattice theory for graduate students and the standard reference for researchers The First Edition set out to introduce and survey lattice theory Some 12 000 papers have been published in the field since then so Lattice Theory Foundation focuses on introducing the field laying the foundation for special topics and applications Lattice Theory Foundation based on the previous three books covers the fundamental concepts and results The main topics are distributivity congruences constructions modularity and semimodularity varieties and free products The chapter on constructions is new all the other chapters are revised and expanded versions from the earlier volumes Almost 40 diamond sections many written by leading specialists in these fields provide a brief glimpse into special topics beyond the

basics Lattice theory has come a long way For those who appreciate lattice theory or who are curious about its techniques and intriguing internal problems Professor Gr tzer s lucid new book provides a most valuable guide to many recent developments Even a cursory reading should provide those few who may still believe that lattice theory is superficial or naive with convincing evidence of its technical depth and sophistication Bulletin of the American Mathematical Society Gr tzer s book General Lattice Theory has become the lattice theorist s bible Mathematical Reviews

*Knowledge-Based Intelligent Information and Engineering Systems* Ignac Lovrek,2008-09-20 The three volume set LNAI 5177 LNAI 5178 and LNAI 5179 constitutes the refereed proceedings of the 12th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2008 held in Zagreb Croatia in September 2008 The 316 revised papers presented were carefully reviewed and selected The papers present a wealth of original research results from the field of intelligent information processing in the broadest sense topics covered in the first volume are artificial neural networks and connectionists systems fuzzy and neuro fuzzy systems evolutionary computation machine learning and classical AI agent systems knowledge based and expert systems intelligent vision and image processing knowledge management ontologies and data mining Web intelligence text and multimedia mining and retrieval and intelligent robotics and control

Lattice Theory George Gratzner,2009-01-01 This outstanding text is written in clear language and enhanced with many exercises diagrams and proofs It discusses historical developments and future directions and provides an extensive bibliography and references 1971 edition

**Combinatorial Optimization** Alexander Schrijver,2003-02-12 This book offers an in depth overview of polyhedral methods and efficient algorithms in combinatorial optimization These methods form a broad coherent and powerful kernel in combinatorial optimization with strong links to discrete mathematics mathematical programming and computer science In eight parts various areas are treated each starting with an elementary introduction to the area with short elegant proofs of the principal results and each evolving to the more advanced methods and results with full proofs of some of the deepest theorems in the area Over 4000 references to further research are given and historical surveys on the basic subjects are presented

**Ibn 'Arabī - Time and Cosmology** Mohamed Haj Yousef,2014-04-04 This book is the first comprehensive attempt to explain Ibn Arab s distinctive view of time and its role in the process of creating the cosmos and its relation with the Creator By comparing this original view with modern theories of physics and cosmology Mohamed Haj Yousef constructs a new cosmological model that may deepen and extend our understanding of the world while potentially solving some of the drawbacks in the current models such as the historical Zeno s paradoxes of motion and the recent Einstein Podolsky Rosen paradox EPR that underlines the discrepancies between Quantum Mechanics and Relativity

**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 contains more than 2200 references Many of the papers covered here were originally published in virtually inaccessible places The compilation of the volume was directed by Milan Kolibiar of Comenius University at Bratislava and Lev A Skorniyakov of Moscow University Of interest to mathematicians as well as to philosophers and computer scientists in certain areas this unique compendium is a must for any mathematical library

**The Congruences of a Finite Lattice** George Grätzer, 2016-06-29 This is a self contained exposition by one of the leading experts in lattice theory George Grätzer presenting the major results of the last 70 years on congruence lattices of finite lattices featuring the author's signature Proof by Picture method Key features Insightful discussion of techniques to construct nice finite lattices with given congruence lattices and nice congruence preserving extensions Contains complete proofs an extensive bibliography and index and over 140 illustrations This new edition includes two new parts on Planar Semimodular Lattices and The Order of Principle Congruences covering the research of the last 10 years The book is appropriate for a one semester graduate course in lattice theory and it is a practical reference for researchers studying lattices Reviews of the first edition There exist a lot of interesting results in this area of lattice theory and some of them are presented in this book This monograph is an exceptional work in lattice theory like all the contributions by this author The way this book is written makes it extremely interesting for the specialists in the field but also for the students in lattice theory Moreover the author provides a series of companion lectures which help the reader to approach the Proof by Picture sections Cosmin Pelea Studia Universitatis Babes Bolyai Mathematica Vol LII 1 2007 The book is self contained with many detailed proofs presented that can be followed step by step In addition to giving the full formal details of the proofs the author chooses a somehow more pedagogical way that he calls Proof by Picture somehow related to the combinatorial as opposed to algebraic nature of many of the presented results I believe that this book is a much needed tool for any mathematician wishing a gentle introduction to the field of congruences representations of finite lattices with emphasis on the more geometric aspects Mathematical

Reviews **The Single Monad Model of the Cosmos** Mohamed Haj Yousef, 2014-06-27 Ibn Arabi is the only scholar who was able to formulate a unique cosmological model that is capable of explaining our observations as well as many phenomena in physics and cosmology and even solve some perplexing modern and historical riddles in science and philosophy such as the EPR paradox and Zeno paradoxes of motion Moreover the Single Monad Model explains for the first time in history the importance of the week as a basic unit of space and time together This prodigious theory is based on the notion of the intertwining days where Ibn Arabi shows that at every instance of time there is indeed one full week of creation that takes place in the globe Since its publication in 2008 this book has triggered an overwhelming response and I hope this expanded edition will help promote further Ibn Arabi's wisdom that is still buried in his multitudes of books and treatises Ibn Arabi is one of the most prominent figures in Islamic history especially in relation to Sufism and Islamic philosophy and theology In

this book we want to explore his cosmology and in particular his view of time in that cosmological context comparing his approaches to the relevant conclusions and principles of modern physics whenever possible We shall see that Ibn Arab had a unique and comprehensive view of time which has never been discussed by any other philosopher or scientist before or even after Ibn Arab In the final two chapters we shall discuss some of the ways his novel view of time and cosmology may be used to build a complete model of the cosmos that may deepen and extend our understanding of the world while potentially solving some of the drawbacks and paradoxes in the current cosmological models of modern physics As we discuss in the opening chapter there is no doubt that time is one of the most important issues in physics cosmology philosophy and theology and hundreds of books and articles have been published in these fields However none of these studies have fully developed Ibn Arab s unique view of time in its cosmological dimensions although his conception of time is indeed central to understanding for example his controversial theory of the oneness of being One possible reason for this relative neglect is the difficult symbolic language he usually used Also he didn t discuss this subject at length in any single place in his extant works not even in chapters 59 291 and 390 of the Fut h t whose titles relate directly to time so we must piece together his overall cosmological understanding of time from his scattered treatments in many works and different contexts within his magnum opus the Fut h t and other books Therefore this book may be considered the first comprehensive attempt to set forth all the relevant dimensions of time in Ibn Arab s wider cosmology and cosmogony To start with Ibn Arab considers time to be a product of our human imagination without any real separately existing entity Nevertheless he still considers it to be one of the four main constituents of existence We need this imagined conception of time to chronologically arrange events and what for us are the practically defining motions of the celestial orbs and other physical objects but for Ibn Arab real existence is attributable only to the actually existing thing that moves not to motion nor to time nor space in which this motion is observed Thus Ibn Arab distinguishes between two kinds of time natural and para natural and he explains that they both originate from the two forces of the soul the active force and the intellective force respectively Then he explains that this imaginary time is cyclical circular relative discrete and inhomogeneous Ibn Arab also gives a precise definition drawing on the specific usage of the Qur an and earlier Arab conceptions of time of the day daytime and night showing how these definitions are related to the relative motions of the celestial orbs including the earth where every orb has its own day and those days are normally measured by our normal observable day that we count on the earth



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