

Congruence kernels in Ockham algebras

T. S. BLYTH AND H. J. SILVA

ABSTRACT. We consider, in the context of an Ockham algebra $\mathcal{L} = (L; f)$, the ideals I of L that are kernels of congruences on $\mathcal{L}$. We describe the smallest and the largest congruences having a given kernel ideal, and show that every congruence kernel $I \neq L$ is the intersection of the prime ideals P such that $I \subseteq P$, $P \cap f(I) = \emptyset$, and $f^2(I) \subseteq P$. The congruence kernels form a complete lattice which in general is not modular. For every non-empty subset X of L , we also describe the smallest congruence kernel to contain X , in terms of which we obtain necessary and sufficient conditions for modularity and distributivity. The case where L is of finite length is highlighted.

1. Introduction

An algebra $\mathcal{L} = (L; \wedge, \vee, f, 0, 1)$ of type $(2, 2, 1, 0, 0)$ in which $(L; \wedge, \vee, 0, 1)$ is a bounded distributive lattice and the unary operation $x \mapsto f(x)$ is a dual lattice endomorphism is known as an *Ockham algebra*. For the basic properties of these algebras, we refer the reader to [4]. It is well known that the set $\mathcal{I}(L)$ of ideals of L , ordered by set inclusion, forms a complete lattice. Given a subset $\mathcal{A}$ of $\mathcal{I}(L)$, we shall denote by $\bigwedge \mathcal{A}$ the infimum of $\mathcal{A}$ in $\mathcal{I}(L)$ and by $\bigvee \mathcal{A}$ the supremum of $\mathcal{A}$ in $\mathcal{I}(L)$.

An ideal I of L is said to be a *congruence kernel* of $\mathcal{L}$ if there exists a congruence ϑ on $\mathcal{L}$ such that $I = \text{Ker } \vartheta = 0/\vartheta$. The set $\mathcal{I}_K(\mathcal{L})$ of congruence kernels of $\mathcal{L}$, ordered by set inclusion, clearly has a smallest element, namely $\{0_L\}$. Now it is easy to verify that the intersection of any family of congruence kernels of $\mathcal{L}$ is also a congruence kernel of $\mathcal{L}$. It then follows that the set $\mathcal{I}_K(\mathcal{L})$ of congruence kernels of $\mathcal{L}$, ordered by set inclusion, forms a complete lattice, the greatest element of which is L itself. Given a subset $\mathcal{A}$ of $\mathcal{I}_K(\mathcal{L})$, we shall denote by $\bigwedge_K \mathcal{A}$ the infimum of $\mathcal{A}$ in $\mathcal{I}_K(\mathcal{L})$ and by $\bigvee_K \mathcal{A}$ the supremum of $\mathcal{A}$ in $\mathcal{I}_K(\mathcal{L})$. It is clear that $\bigwedge_K \mathcal{A} = \bigcap \mathcal{A}$ and $\bigvee_K \mathcal{A} = \bigcap \{J \in \mathcal{I}_K(\mathcal{L}) \mid \bigcup \mathcal{A} \subseteq J\}$.

We shall also have occasion to consider the subset

$$\mathcal{I}_2(\mathcal{L}) = \{I \in \mathcal{I}(L) \mid f^2(I) \subseteq I\}.$$

Since the term operation f^2 is an endomorphism on the algebra $\mathcal{L}$, it follows immediately that

- (1) $\mathcal{I}_2(\mathcal{L})$ is a complete sublattice of $\mathcal{I}(L)$;
- (2) if I is a congruence kernel of $\mathcal{L}$ then $I \in \mathcal{I}_2(\mathcal{L})$.

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Ockham Algebras

Guojun Wang, Yongming Li, Bin Zhao



Ockham Algebras:

Ockham Algebras Thomas Scott Blyth, 1994 **Ockham Algebras** Varlet Blyth, Thomas Scott Blyth, J. Varlet (prof.), 1994 An Ockham algebra is a natural generalization of a well known and important notion of a boolean algebra Regarding the latter as a bounded distributive lattice with complementation a dual automorphism of period 2 by a dual endomorphism that satisfies the de Morgan laws this seemingly modest generalization turns out to be extremely wide The variety of Ockham algebras has infinitely many subvarieties including those of de Morgan algebras Stone algebras and Kleene algebras Following pioneering work by Berman in 1977 many papers have appeared in this area of lattice theory to which several important results in the theory of universal algebra are highly applicable This is the first unified account of some of this research Particular emphasis is placed on Priestley's topological duality which involves working with ordered sets and order reversing maps hereby involving many problems of a combinatorial nature Written with the graduate student in mind this book provides an ideal overview of this area of increasing interest **Lattices, Semigroups, and Universal Algebra** Jorge Almeida, Gabriela Bordalo, Philip Dwinger, 2013-11-11 This volume contains papers which for the most part are based on talks given at an international conference on Lattices Semigroups and Universal Algebra that was held in Lisbon Portugal during the week of June 20-24 1988 The conference was dedicated to the memory of Professor Antonio Almeida Costa a Portuguese mathematician who greatly contributed to the development of the algebra in Portugal on the 10 anniversary of his death The themes of the conference reflect some of his research interests and those of his students The purpose of the conference was to gather leading experts in Lattices Semigroups and Universal Algebra and to promote a discussion of recent developments and trends in these areas All three fields have grown rapidly during the last few decades with varying degrees of interaction Lattice theory and Universal Algebra have historically evolved alongside with a large overlap between the groups of researchers in the two fields More recently techniques and ideas of these theories have been used extensively in the theory of semigroups Conversely some developments in that area may inspire further developments in Universal Algebra On the other hand techniques of semigroup theory have naturally been employed in the study of semilattices Several papers in this volume elaborate on these interactions Alasdair Urquhart on Nonclassical and Algebraic Logic and Complexity of Proofs Ivo Düntsch, Edwin Mares, 2021-09-24 This book is dedicated to the work of Alasdair Urquhart The book starts out with an introduction to and an overview of Urquhart's work and an autobiographical essay by Urquhart This introductory section is followed by papers on algebraic logic and lattice theory papers on the complexity of proofs and papers on philosophical logic and history of logic The final section of the book contains a response to the papers by Urquhart Alasdair Urquhart has made extremely important contributions to a variety of fields in logic He produced some of the earliest work on the semantics of relevant logic He provided the undecidability of the logics R of relevant implication and E of relevant entailment as well as some of their close neighbors He proved that interpolation fails in

some of those systems Urquhart has done very important work in complexity theory both about the complexity of proofs in classical and some nonclassical logics In pure algebra he has produced a representation theorem for lattices and some rather beautiful duality theorems In addition he has done important work in the history of logic especially on Bertrand Russell including editing Volume four of Russell's Collected Papers

Affine Completeness of Some Ockham Algebras Vladimir Kuchmei, 2003

Algebras and Orders Ivo G. Rosenberg, Gert Sabidussi, 2013-03-09 In the summer of 1991 the Department of Mathematics and Statistics of the Universite de Montreal was fortunate to host the NATO Advanced Study Institute Algebras and Orders as its 30th Seminaire de mathematiques superieures SMS a summer school with a long tradition and well established reputation This book contains the contributions of the invited speakers Universal algebra which established itself only in the 1930's grew from traditional algebra e.g groups modules rings and lattices and logic e.g propositional calculus model theory and the theory of relations It started by extending results from these fields but by now it is a well established and dynamic discipline in its own right One of the objectives of the ASI was to cover a broad spectrum of topics in this field and to put in evidence the natural links to and interactions with boolean algebra lattice theory topology graphs relations automata theoretical computer science and partial orders The theory of orders is a relatively young and vigorous discipline sharing certain topics as well as many researchers and meetings with universal algebra and lattice theory W Taylor surveyed the abstract clone theory which formalizes the process of composing operations i.e the formation of term operations of an algebra as a special category with countably many objects and leading naturally to the interpretation and equivalence of varieties

Quantitative Logic and Soft Computing Guojun Wang, Yongming Li, Bin Zhao, 2012 The QL SC 2012 is a major symposium for scientists and practitioners all around the world to present their latest researches results ideas developments and applications in such areas as quantitative logic many valued logic fuzzy logic quantification of software artificial intelligence fuzzy sets and systems and soft computing This invaluable book provides a broad introduction to the fuzzy reasoning and soft computing It is certain one should not go too far in approximation and optimization and a certain degree must be kept in mind This is the essential idea of quantitative logic and soft computing The explanations in the book are complete to provide the necessary background material needed to go further into the subject and explore the research literature It is suitable reading for graduate students It provides a platform for mutual exchanges from top experts and scholars around the world in this field

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databases P2P systems and Semantic Web applications Moreover the many valued version of IFOL can support the AI applications based on many valued logics

Ordered Sets Ivan Rival,2012-12-06 This volume contains all twenty three of the principal survey papers presented at the Symposium on Ordered Sets held at Banff Canada from August 28 to September 12 1981 The Symposium was supported by grants from the NATO Advanced Study Institute programme the Natural Sciences and Engineering Research Council of Canada the Canadian Mathematical Society Summer Research Institute programme and the University of Calgary tve are very grateful to these Organizations for their considerable interest and support Over forty years ago on April 15 1938 the first Symposium on Lattice Theory was held in Charlottesville U S A in conjunction with a meeting of the American Mathematical Society The principal addresses on that occasion were Lattices and their applications by G Birkhoff On the application of structure theory to groups by O Ore and The representation of Boolean algebras by M H Stone The texts of these addresses and three others by R Baer H M MacNeille and K Menger appear in the Bulletin of the American Mathematical Society Volume 44 1938 In those days the theory of ordered sets and especially lattice theory was described as a vigorous and promising younger brother of group theory Some early workers hoped that lattice theoretic methods would lead to solutions of important problems in group theory

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

Proceedings of the Estonian Academy of Sciences, Physics and Mathematics ,2004-03

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