Ordering protoalgebraic logics

Josep Maria Font

Abstract

This paper is a first step in the study of the order structure of the set of all protoalgebraic logics over a fixed (but arbitrary) language. In particular, it is shown herein that the set is a join-complete semilattice, that it has no minimum, and that is not a meet-semilattice. One of the key points in this study is the discovery of a large family of rather weak protoalgebraic logics, from which an infinity of denumerable sequences of protoalgebraic logics of strictly decreasing strength and with no lower protoalgebraic bound is constructed. Other properties of these logics are also studied, such as their classification in the Frege hierarchy and in the Leibniz hierarchy, and several common metalogical properties (conjunction, disjunction, deduction theorems, etc.; in fact, it turns out that they do not possess any of these properties). These logics provide examples of a kind of protoalgebraic logics, few of which have been provided in the literature to date. The paper ends by discussing the issue of how to extend the results to the class of all protoalgebraic logics over different languages, ordered under the expansion relation. This paper is an example of the use of combinatorial techniques within the field of abstract algebraic logic.

Keywords: Abstract algebraic logic, protoalgebraic logics, lattices of logics, iteration construction, coherent set, Leibniz hierarchy, Frege hierarchy.

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   Protoalgebraic Logics Janusz Czelakowski,2013-04-17 The main aim of this book is to present recent ideas in logic centered around the notion of a consequence operation We wish to show these ideas in a factually and materially connected way i e in the form of a consistent theory derived from several simple assumptions and definitions These ideas have arisen in many research centers The thorough study of their history can certainly be an exciting task for the historian of logic in the book this aspect of the theory is being played down The book belongs to abstract algebraic logic the area of research that explores to a large extent interconnections between algebra and logic The results presented here concern logics defined in zero order languages Le quantifier free sentential languages without predicate symbols The reach of the theory expounded in the book is in fact much wider The theory is also valid for logics defined in languages of higer orders The problem of transferring the theory to the level of first order languages has been satisfactorily solved and new ideas within this area have been put forward in the work of Blok and Pigozzi 1989   *A General Algebraic Semantics for Sentential Logics* Josep Maria Font,Ramon Jansana,2017-03-02 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again In this volume the seventh publication in the Lecture Notes in Logic series Font and Jansana develop a very general approach to the algebraization of sentential logics and present its results on a number of particular logics The authors compare their approach which uses abstract logics to the classical approach based on logical matrices and the equational consequence developed by Blok Czelakowski Pigozzi and others This monograph presents a systematized account of some of the work on the algebraic study of sentential logics carried out by the logic group in Barcelona in the 1970s   **Algebraizable Logics** W. J. Blok,Don Pigozzi,2022-07-23 W J Blok and Don Pigozzi set out to try to answer the question of what it means for a logic to have algebraic semantics In this seminal book they transformed the study of algebraic logic by giving a general framework for the study of logics by algebraic means The Dutch mathematician W J Blok 1947 2003 received his doctorate from the University of Amsterdam in 1979 and was Professor of Mathematics at the University of Illinois Chicago until his death in an automobile accident Don Pigozzi 1935 grew up in Oakland California received his doctorate from the University of California Berkeley in 1970 and was Professor of Mathematics at Iowa State University until his retirement in 2002 The Advanced Reasoning Forum is pleased to make available in its Classic Reprints series this exact reproduction of the 1989 text with a new errata sheet prepared by Don Pigozzi   **Hiroakira Ono on Substructural Logics** Nikolaos Galatos,Kazushige Terui,2021-12-13 This volume is dedicated to Hiroakira Ono life s work on substructural logics Chapters written by well established academics cover topics related to universal algebra algebraic logic and the Full Lambek calculus the book includes a short biography about Hiroakira Ono The book starts with detailed surveys on universal algebra abstract algebraic logic topological dualities and connections to computer science It further contains specialised

contributions on connections to formal languages recognizability in residuated lattices and connections to the finite embedding property covering systems for modal substructural logics results on the existence and disjunction properties and finally a study of conservativity of expansions This book will be primarily of interest to researchers working in algebraic and non classical logic   **Beyond Two: Theory and Applications of Multiple-Valued Logic** Melvin Fitting,Ewa Orlowska,2013-06-05 This volume represents the state of the art for much current research in many valued logics Primary researchers in the field are among the authors Major methodological issues of many valued logics are treated as well as applications of many valued logics to reasoning with fuzzy information Areas covered include Algebras of multiple valued logics and their applications proof theory and automated deduction in multiple valued logics fuzzy logics and their applications and multiple valued logics for control theory and rational belief   *Mathematical Logic in Asia* Rod G. Downey,2006 This volume is devoted to the main areas of mathematical logic and applications to computer science There are articles on weakly o minimal theories algorithmic complexity of relations models within the computable model theory hierarchies of randomness tests computable numberings and complexity problems of minimal unsatisfiable formulas The problems of characterization of the deduction detachment theorem 1 induction completeness of Le niewski s systems and reduction calculus for the satisfiability problem are also discussed The coverage includes the answer to Kanovei s question about the upper bound for the complexity of equivalence relations by convergence at infinity for continuous functions The volume also gives some applications to computer science such as solving the problems of inductive interference of languages from the full collection of positive examples and some negative data the effects of random negative data methods of formal specification and verification on the basis of model theory and multiple valued logics interval fuzzy algebraic systems the problems of information exchange among agents on the base topological structures and the predictions provided by inductive theories   *Don Pigozzi on Abstract Algebraic Logic, Universal Algebra, and Computer Science* Janusz Czelakowski,2018-03-20 This book celebrates the work of Don Pigozzi on the occasion of his 80th birthday In addition to articles written by leading specialists and his disciples it presents Pigozzi s scientific output and discusses his impact on the development of science The book both catalogues his works and offers an extensive profile of Pigozzi as a person sketching the most important events not only related to his scientific activity but also from his personal life It reflects Pigozzi s contribution to the rise and development of areas such as abstract algebraic logic AAL universal algebra and computer science and introduces new scientific results Some of the papers also present chronologically ordered facts relating to the development of the disciplines he contributed to especially abstract algebraic logic The book offers valuable source material for historians of science especially those interested in history of mathematics and logic   **Logic and Implication** Petr Cintula,Carles Noguera,2022-01-01 This monograph presents a general theory of weakly implicative logics a family covering a vast number of non classical logics studied in the literature concentrating mainly on the abstract study of the relationship

between logics and their algebraic semantics It can also serve as an introduction to abstract algebraic logic both propositional and first order with special attention paid to the role of implication lattice and residuated connectives and generalized disjunctions Based on their recent work the authors develop a powerful uniform framework for the study of non classical logics In a self contained and didactic style starting from very elementary notions they build a general theory with a substantial number of abstract results The theory is then applied to obtain numerous results for prominent families of logics and their algebraic counterparts in particular for superintuitionistic modal substructural fuzzy and relevant logics The book may be of interest to a wide audience especially students and scholars in the fields of mathematics philosophy computer science or related areas looking for an introduction to a general theory of non classical logics and their algebraic semantics

Logica Universalis Jean-Yves Beziau,2007-08-08 Universal Logic is not a new logic but a general theory of logics considered as mathematical structures The name was introduced about ten years ago but the subject is as old as the beginning of modern logic It was revived after the flowering of thousands of new logics during the last thirty years there was a need for a systematic theory of logics to put some order in this chaotic multiplicity The present book contains recent works on universal logic by first class researchers from all around the world The book is full of new and challenging ideas that will guide the future of this exciting subject It will be of interest for people who want to better understand what logic is It will help those who are lost in the jungle of heterogeneous logical systems to find a way Tools and concepts are provided here for those who want to study classes of already existing logics or want to design and build new ones **Mathematical Logic In Asia - Proceedings Of The 9th Asian Logic Conference** Sergei S Goncharov,Hiroakira Ono,Rodney G Downey,2006-10-23 This volume is devoted to the main areas of mathematical logic and applications to computer science There are articles on weakly o minimal theories algorithmic complexity of relations models within the computable model theory hierarchies of randomness tests computable numberings and complexity problems of minimal unsatisfiable formulas The problems of characterization of the deduction detachment theorem 1 induction completeness of Le niewski s systems and reduction calculus for the satisfiability problem are also discussed The coverage includes the answer to Kanovei s question about the upper bound for the complexity of equivalence relations by convergence at infinity for continuous functions The volume also gives some applications to computer science such as solving the problems of inductive interference of languages from the full collection of positive examples and some negative data the effects of random negative data methods of formal specification and verification on the basis of model theory and multiple valued logics interval fuzzy algebraic systems the problems of information exchange among agents on the base topological structures and the predictions provided by inductive theories **Reports on Mathematical Logic No. 46** ,2011 Reports on Mathematical Logic is a journal aimed at publishing quality research papers on mathematical logic and foundations of mathematics TM *Petr Hájek on Mathematical Fuzzy Logic* Franco Montagna,2014-09-23 This volume celebrates the work of Petr H jek on mathematical fuzzy logic and presents how

his efforts have influenced prominent logicians who are continuing his work The book opens with a discussion on H jek s contribution to mathematical fuzzy logic and with a scientific biography of him progresses to include two articles with a foundation flavour that demonstrate some important aspects of H jek s production namely a paper on the development of fuzzy sets and another paper on some fuzzy versions of set theory and arithmetic Articles in the volume also focus on the treatment of vagueness building connections between H jek s favorite fuzzy logic and linguistic models of vagueness Other articles introduce alternative notions of consequence relation namely the preservation of truth degrees which is discussed in a general context and the differential semantics For the latter a surprisingly strong standard completeness theorem is proved Another contribution also looks at two principles valid in classical logic and characterize the three main t norm logics in terms of these principles Other articles with an algebraic flavour offer a summary of the applications of lattice ordered groups to many valued logic and to quantum logic as well as an investigation of prelinearity in varieties of pointed lattice ordered algebras that satisfy a weak form of distributivity and have a very weak implication The last part of the volume contains an article on possibilistic modal logics defined over MTL chains a topic that H jek discussed in his celebrated work Metamathematics of Fuzzy Logic and another one where the authors besides offering unexpected premises such as proposing to call H jek s basic fuzzy logic HL instead of BL propose a very weak system called SL as a candidate for the role of the really basic fuzzy logic The paper also provides a generalization of the prelinearity axiom which was investigated by H jek in the context of fuzzy logic   **Janusz Czelakowski on Logical Consequence** Jacek Malinowski,Rafał Palczewski,2024-03-12 This book is dedicated to the life and work of logician Janusz Czelakowski on the topic of logical consequence It consists of three parts a biography a survey and research sections The volume begins with an autobiographic chapter by Janusz Czelakowski followed by a historical chapter written by Jacek Malinowski The survey section forms the backbone of the volume with each chapter covering one of Janusz Czelakowski s results They focus on his results in the area of logical consequence demonstrate how his results influenced following research and presents potential future results problems and applications This volume is of interest to logicians and mathematicians   **Logics of Variable Inclusion** Stefano Bonzio,Francesco Paoli,Michele Pra Baldi,2022-06-09 This monograph shows that through a recourse to the concepts and methods of abstract algebraic logic the algebraic theory of regular varieties and the concept of analyticity in formal logic can profitably interact By extending the technique of Plonka sums from algebras to logical matrices the authors investigate the different classes of models for logics of variable inclusion and they shed new light into their formal properties The book opens with the historical origins of logics of variable inclusion and on their philosophical motivations It includes the basics of the algebraic theory of regular varieties and the construction of Plonka sums over semilattice direct systems of algebra The core of the book is devoted to an abstract definition of logics of left and right variable inclusion respectively and the authors study their semantics using the construction of Plonka sums of matrix models The authors also cover Paraconsistent Weak

Kleene logic and survey its abstract algebraic logical properties This book is of interest to scholars of formal logic

Handbook of Modal Logic Patrick Blackburn,Johan F.A.K. van Benthem,Frank Wolter,2006-11-03 The Handbook of Modal Logic contains 20 articles which collectively introduce contemporary modal logic survey current research and indicate the way in which the field is developing The articles survey the field from a wide variety of perspectives the underling theory is explored in depth modern computational approaches are treated and six major applications areas of modal logic in Mathematics Computer Science Artificial Intelligence Linguistics Game Theory and Philosophy are surveyed The book contains both well written expository articles suitable for beginners approaching the subject for the first time and advanced articles which will help those already familiar with the field to deepen their expertise Please visit http people uleth ca woods RedSeriesPromo_WP PubSLPR html Compact modal logic reference Computational approaches fully discussed Contemporary applications of modal logic covered in depth *Trends in Logic* Vincent F. Hendricks,Jacek Malinowski,2013-03-09 In 1953 exactly 50 years ago to this day the first volume of Studia Logica appeared under the auspices of The Philosophical Committee of The Polish Academy of Sciences Now five decades later the present volume is dedicated to a celebration of this 50th Anniversary of Studia Logica The volume features a series of papers by distinguished scholars reflecting both the aim and scope of this journal for symbolic logic *The Many Valued and Nonmonotonic Turn in Logic* Dov M. Gabbay,John Woods,2007-08-13 The present volume of the Handbook of the History of Logic brings together two of the most important developments in 20th century non classical logic These are many valuedness and non monotonicity On the one approach in deference to vagueness temporal or quantum indeterminacy or reference failure sentences that are classically non bivalent are allowed as inputs and outputs to consequence relations Many valued dialetheic fuzzy and quantum logics are among other things principled attempts to regulate the flow through of sentences that are neither true nor false On the second or non monotonic approach constraints are placed on inputs and sometimes on outputs of a classical consequence relation with a view to producing a notion of consequence that serves in a more realistic way the requirements of real life inference Many valued logics produce an interesting problem Non bivalent inputs produce classically valid consequence statements for any choice of outputs A major task of many valued logics of all stripes is to fashion an appropriately non classical relation of consequence The chief preoccupation of non monotonic and default logicians is how to constrain inputs and outputs of the consequence relation In what is called left non monotonicity it is forbidden to add new sentences to the inputs of true consequence statements The restriction takes notice of the fact that new information will sometimes override an antecedently and reasonably derived consequence In what is called right non monotonicity limitations are imposed on outputs of the consequence relation Most notably perhaps is the requirement that the rule of or introduction not be given free sway on outputs Also prominent is the effort of paraconsistent logicians both preservationist and dialetheic to limit the outputs of inconsistent inputs which in classical contexts are wholly unconstrained In some instances our two themes

coincide Dialetheic logics are a case in point Dialetheic logics allow certain selected sentences to have as a third truth value the classical values of truth and falsity together So such logics also admit classically inconsistent inputs A central task is to construct a right non monotonic consequence relation that allows for these many valued and inconsistent inputs The Many Valued and Non Monotonic Turn in Logic is an indispensable research tool for anyone interested in the development of logic including researchers graduate and senior undergraduate students in logic history of logic mathematics history of mathematics computer science AI linguistics cognitive science argumentation theory and the history of ideas Detailed and comprehensive chapters covering the entire range of modal logic Contains the latest scholarly discoveries and interprative insights that answers many questions in the field of logic **Residuated Structures in Algebra and Logic** George Metcalfe,Francesco Paoli,Constantine Tsinakis,2023-11-06 This book is an introduction to residuated structures viewed as a common thread binding together algebra and logic The framework includes well studied structures from classical abstract algebra such as lattice ordered groups and ideals of rings as well as structures serving as algebraic semantics for substructural and other non classical logics Crucially classes of these structures are studied both algebraically yielding a rich structure theory along the lines of Conrad s program for lattice ordered groups and algorithmically via analytic sequent or hypersequent calculi These perspectives are related using a natural notion of equivalence for consequence relations that provides a bridge offering benefits to both sides Algorithmic methods are used to establish properties like decidability amalgamation and generation by subclasses while new insights into logical systems are obtained by studying associated classes of structures The book is designed to serve the purposes of novices and experts alike The first three chapters provide a gentle introduction to the subject while subsequent chapters provide a state of the art account of recent developments in the field **Logic, Language, Information, and Computation** Dexter Kozen,Ruy de Queiroz,2025-09-01 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 31st International Workshop on Logic Language Information and Computation WoLLIC 2025 in Porto Portugal during July 2025 The 21 full papers included in this book were carefully reviewed and selected from 57 submissions The WoLLIC conference aim of fostering interdisciplinary research in pure and applied logic Algebraic Perspectives on Substructural Logics Davide Fazio,Antonio Ledda,Francesco Paoli,2020-11-07 This volume presents the state of the art in the algebraic investigation into substructural logics It features papers from the workshop AsubL Algebra Substructural Logics Take 6 Held at the University of Cagliari Italy this event is part of the framework of the Horizon 2020 Project SYSMICS SYntax meets Semantics Methods Interactions and Connections in Substructural logics Substructural logics are usually formulated as Gentzen systems that lack one or more structural rules They have been intensively studied over the past two decades by logicians of various persuasions These researchers include mathematicians philosophers linguists and computer scientists Substructural logics are applicable to the mathematical investigation of such processes as resource conscious reasoning

approximate reasoning type theoretical grammar and other focal notions in computer science They also apply to epistemology economics and linguistics The recourse to algebraic methods or better the fecund interplay of algebra and proof theory has proved useful in providing a unifying framework for these investigations The AsubL series of conferences in particular has played an important role in these developments This collection will appeal to students and researchers with an interest in substructural logics abstract algebraic logic residuated lattices proof theory universal algebra and logical semantics

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