Substructural Logics: A Primer

by

Francesco Paoli

Substructural Logics A Primer

Katalin Bimbo

Substructural Logics A Primer:

 Substructural Logics: A Primer F. Paoli,2002-05-31 The aim of the present book is to give a comprehensive account of the state of the art of substructural logics focusing both on their proof theory especially on sequent calculi and their generalizations and on their semantics both algebraic and relational It is for graduate students in either philosophy mathematics theoretical computer science or theoretical linguistics as well as specialists and researchers Substructural Logics: A Primer F. Paoli,2013-11-27 Substructural logics are by now one of the most prominent branches of the research field usually labelled as nonclassical logics and perhaps of logic tout court Over the last few decades a vast amount of research papers and even some books have been devoted to this subject The aim of the present book is to give a comprehensive account of the state of the art of substructural logics focusing both on their proof theory especially on sequent calculi and their generalizations and on their semantics both algebraic and relational Readership This textbook is designed for a wide readership graduate students in either philosophy mathematics theoretical computer science or theoretical linguistics with no previous knowledge of the subject except for a working knowledge of elementary logic will be gradually introduced into the field starting from its basic foundations specialists and researchers in the area will find an up to date survey of the most important current research topics and problems **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 Residuated Lattices: An Algebraic Glimpse at Substructural Logics Nikolaos Galatos,Peter Jipsen,Tomasz Kowalski,Hiroakira Ono,2007-04-25 The book is meant to serve two purposes The first and more obvious one is to present state of the art results in algebraic research into residuated structures related to substructural logics The second less obvious but equally important is to provide a reasonably gentle introduction to algebraic logic At the beginning the second

objective is predominant Thus in the first few chapters the reader will find a primer of universal algebra for logicians a crash course in nonclassical logics for algebraists an introduction to residuated structures an outline of Gentzen style calculi as well as some titbits of proof theory the celebrated Hauptsatz or cut elimination theorem among them These lead naturally to a discussion of interconnections between logic and algebra where we try to demonstrate how they form two sides of the same coin We envisage that the initial chapters could be used as a textbook for a graduate course perhaps entitled Algebra and Substructural Logics As the book progresses the first objective gains predominance over the second Although the precise point of equilibrium would be difficult to specify it is safe to say that we enter the technical part with the discussion of various completions of residuated structures These include Dedekind McNeille completions and canonical extensions Completions are used later in investigating several finiteness properties such as the finite model property generation of varieties by their finite members and finite embeddability The algebraic analysis of cut elimination that follows also takes recourse to completions Decidability of logics equational and quasi equational theories comes next where we show how proof theoretical methods like cut elimination are preferable for small logics theories but semantic tools like Rabin s theorem work better for big ones Then we turn to Glivenko s theorem which says that a formula is an intuitionistic tautology if and only if its double negation is a classical one We generalise it to the substructural setting identifying for each substructural logic its Glivenko equivalence class with smallest and largest element This is also where we begin investigating lattices of logics and varieties rather than particular examples We continue in this vein by presenting a number of results concerning minimal varieties maximal logics A typical theorem there says that for some given well known variety its subvariety lattice has precisely such and such number of minimal members where values for such and such include but are not limited to continuum countably many and two In the last two chapters we focus on the lattice of varieties corresponding to logics without contraction In one we prove a negative result that there are no nontrivial splittings in that variety In the other we prove a positive one that semisimple varieties coincide with discriminator ones Within the second more technical part of the book another transition process may be traced Namely we begin with logically inclined technicalities and end with algebraically inclined ones Here perhaps algebraic rendering of Glivenko theorems marks the equilibrium point at least in the sense that finiteness properties decidability and Glivenko theorems are of clear interest to logicians whereas semisimplicity and discriminator varieties are universal algebra par exellence It is for the reader to judge whether we succeeded in weaving these threads into a seamless fabric   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   **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   **Relevant Logic** Edwin D. Mares,2004-02-26 This book introduces the reader to relevant logic and provides it with a philosophical interpretation The defining feature of relevant logic is that it forces the premises of an argument to be really used relevant in deriving its conclusion The logic is placed in the context of possible world semantics and situation semantics which are then applied to provide an understanding of the various logical particles especially implication and negation and natural language conditionals The book ends by examining various applications of relevant logic and presenting some interesting open problems   **New Directions in Relevant Logic** Igor Sedlár,Shawn Standefer,Andrew Tedder,2025-01-30 This book brings together contemporary work on relevant logics to showcase the recent progress of the field and set the stage for future research The papers in the volume contribute to the formal and philosophical development of the field They include contributions from different traditions and approaches ranging from philosophical discussions of the foundations of relevant and related kinds of non classical logic to mathematical work concerning open technical problems in the field This is the first edited collection on the topic in many years and it includes contributions from established figures as well as younger generations of researchers Relevant logics have recently seen a resurgence of interest and this volume will be an important resource for logicians working on substructural and relevant logics for years to come   *Paraconsistency: Logic and Applications* Koji Tanaka,Francesco Berto,Edwin Mares,Francesco Paoli,2012-07-26 A logic is called paraconsistent if it rejects the rule called ex contradictione quodlibet according to which any conclusion follows from inconsistent premises While logicians have proposed many technically developed paraconsistent logical systems and contemporary philosophers like Graham Priest have advanced the view that some contradictions can be true and advocated a paraconsistent logic to deal with them until recent times these systems have been little understood by philosophers This book presents a comprehensive overview on paraconsistent logical systems to change this situation The book includes almost every major author currently working in the field The papers are on the cutting edge of the literature

some of which discuss current debates and others present important new ideas The editors have avoided papers about technical details of paraconsistent logic but instead concentrated upon works that discuss more big picture ideas Different treatments of paradoxes takes centre stage in many of the papers but also there are several papers on how to interpret paraconistent logic and some on how it can be applied to philosophy of mathematics the philosophy of language and metaphysics   **Logic and Information** Edwin Mares,2024-06-30 This Element looks at two projects that relate logic and information the project of using logic to integrate manipulate and interpret information and the proect of using the notion of information to provide interpretations of logical systems The Element defines information in a manner that includes misinformation and disinformation and uses this general concept of information to provide an interpretation of various paraconsistent and relevant logics It also integrates these logics into contemporary theories of informational updating probability theory and rather informally some ideas from the theory of the complexity of proofs The Element assumes some prior knowledge of modal logic and its possible world semantics but all the other necessary background is provided **Logic, Language, Information, and Computation** Leonid Libkin,Ulrich Kohlenbach,Ruy de Queiroz,2013-08-15 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 20th Workshop on Logic Language Information and Communication WoLLIC 2013 held in Darmstadt Germany in August 2013 The 17 contributed papers presented together with 6 invited lectures were carefully reviewed and selected from 30 submissions The scope of the workshop spans the theoretical and practical aspects of formal logic computing and programming theory and natural language and reasoning   Pluralisms in Truth and Logic Jeremy Wyatt,Nikolaj J. L. L. Pedersen,Nathan Kellen,2018-12-29 This edited volume brings together 18 state of the art essays on pluralism about truth and logic Parts I and II are dedicated to respectively truth pluralism and logical pluralism and Part III to their interconnections Some contributors challenge pluralism arguing that the nature of truth or logic is uniform The majority of contributors however defend pluralism articulate novel versions of the view or contribute to fundamental debates internal to the pluralist camp The volume will be of interest to truth theorists and philosophers of logic as well as philosophers interested in relativism contextualism metaphysics philosophy of language semantics paradox epistemology or normativity   *J. Michael Dunn on Information Based Logics* Katalin Bimbo,2016-04-02 This book celebrates and expands on J Michael Dunn s work on informational interpretations of logic Dunn in his Ph D thesis 1966 introduced a semantics for first degree entailments utilizing the idea that a sentence can provide positive or negative information about a topic possibly supplying both or neither He later published a related interpretation of the logic R mingle which turned out to be one of the first relational semantics for a relevance logic An incompatibility relation between information states lends itself to a definition of negation and it has figured into Dunn s comprehensive investigations into representations of various negations The informational view of semantics is also a prominent theme in Dunn s research on other logics such as quantum logic and

linear logic and led to the encompassing theory of generalized Galois logics or gaggles Dunn s latest work addresses informational interpretations of the ternary accessibility relation and the very nature of information The book opens with Dunn s autobiography followed by a list of his publications It then presents a series of papers written by respected logicians working on different aspects of information based logics The topics covered include the logic R mingle which was introduced by Dunn and its applications in mathematical reasoning as well as its importance in obtaining results for other relevance logics There are also interpretations of the accessibility relation in the semantics of relevance and other non classical logics using different notions of information It also presents a collection of papers that develop semantics for various logics including certain modal and many valued logics The publication of this book is well timed since we are living in an information age Providing new technical findings intellectual history and careful expositions of intriguing ideas it appeals to a wide audience of scholars and researchers   Logic, Language, Information, and Computation Rosalie Iemhoff,Michael Moortgat,Ruy de Queiroz,2019-06-23 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 26th Workshop on Logic Language Information and Communication WoLLIC 2019 held in Utrecht The Netherlands in July 2019 The 41 full papers together with 6 invited lectures presented were fully reviewed and selected from 60 submissions The idea is to have a forum which is large enough in the number of possible interactions between logic and the sciences related to information and computation and yet is small enough to allow for concrete and useful interaction among participants   **Dynamics, Uncertainty and Reasoning** Beishui Liao,Thomas Ågotnes,Yi N. Wang,2019-07-23 This volume collects selected papers presented at the Second Chinese Conference on Logic and Argumentation in 2018 held in Hangzhou China The papers presented reflect recent advances in logic and argumentation as well as the connections between the two and also include invited papers contributed by leading experts in these fields The book covers a wide variety of topics related to dynamics uncertainty and reasoning It continues discussions on the interplay between logic and argumentation which has a long history from Aristotle s ancient logic to very recent formal argumentation in AI   **Proof Theory** Katalin Bimbo,2014-08-20 Although sequent calculi constitute an important category of proof systems they are not as well known as axiomatic and natural deduction systems Addressing this deficiency Proof Theory Sequent Calculi and Related Formalisms presents a comprehensive treatment of sequent calculi including a wide range of variations It focuses on sequent calculi   *Kit Fine on Truthmakers, Relevance, and Non-classical Logic* Federico L. G. Faroldi,Frederik Van De Putte,2023-11-25 This book explores some of Kit Fine s outstanding contributions to logic philosophy of language philosophy of mathematics and metaphysics among others Contributing authors address in depth issues about truthmaker semantics counterfactual conditionals grounding vagueness non classical consequence relations and arbitrary objects offering critical reflections and novel research contributions Each chapter is accompanied by an extensive commentary in which Kit Fine offers detailed responses to the ideas and themes raised by the contributors The

book includes a brief autobiography and exhaustive list of his publications to this date This book is of interest to logicians of all stripes and to analytic philosophers more generally **Logic-Based Program Synthesis and Transformation** Emanuele De Angelis,Wim Vanhoof,2022-03-12 This book constitutes the refereed proceedings of the 31st International Conference on Logic Based Program Synthesis and Transformation LOPSTR 2021 which was held during September 7 8 2021 The 8 papers presented in this volume were carefully reviewed and selected from a total of 15 reviewed submissions Additionally the book also contains 1 full length invited talk Conference was held as a hybrid event due to the COVID 19 pandemic **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 **How the World Computes** Barry S. Cooper,Anuj Dawar,Benedikt Löwe,2012-05-28 This book constitutes the refereed proceedings of the Turing Centenary Conference and the 8th Conference on Computability in Europe CiE 2012 held in Cambridge UK in June 2012 The 53 revised papers presented together with 6 invited lectures were carefully reviewed and selected with an acceptance rate of under 29 8% The CiE 2012 Turing Centenary Conference will be remembered as a historic event in the continuing development of the powerful explanatory role of computability across a wide spectrum of research areas The papers presented at CiE 2012 represent the best of current research in the area and forms a fitting tribute to the short but brilliant trajectory of Alan Mathison Turing Both the conference series and the association promote the development of computability related science ranging over mathematics computer science and applications in various natural and engineering sciences such as physics and biology and also including the promotion of related non scientific fields such as philosophy and history of computing

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Table of Contents Substructural Logics A Primer

1. Understanding the eBook Substructural Logics A Primer
   - The Rise of Digital Reading Substructural Logics A Primer
   - Advantages of eBooks Over Traditional Books
2. Identifying Substructural Logics A Primer
   - 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 Substructural Logics A Primer
   - User-Friendly Interface
4. Exploring eBook Recommendations from Substructural Logics A Primer

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