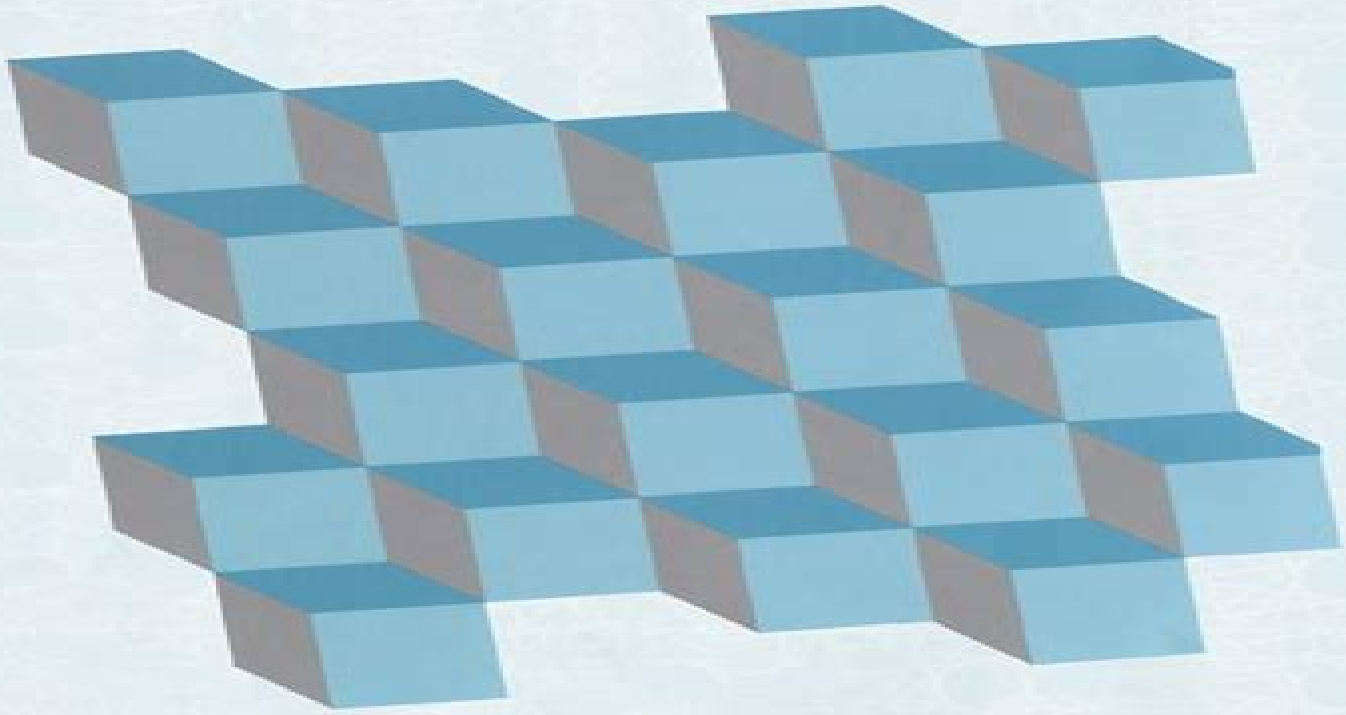
ROUTLEDGE

AN INTRODUCTION TO SUBSTRUCTURAL LOGICS

GREG RESTALL



Substructural Logics

Lei Shi

Substructural Logics:

An Introduction to Substructural Logics Greg Restall,2002-09-11 This book introduces an important group of logics that have come to be known under the umbrella term susbstructural Substructural logics have independently led to significant developments in philosophy computing and linguistics An Introduction to Substrucural Logics is the first book to systematically survey the new results and the significant impact that this class of logics has had on a wide range of fields The following topics are covered Proof Theory Propositional Structures Frames Decidability Coda Both students and professors of philosophy computing linguistics and mathematics will find this to be an important addition to their reading

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 Peter Joseph Schroeder-Heister,Kosta Došen,1993 The new area of logic and computation is now undergoing rapid development This has affected the social pattern of research in the area A new topic may rise very quickly with a significant body of research around it The community however cannot wait the traditional two years for a book to appear This has given greater importance to thematic collections of papers centred around a topic and addressing it from several points of view usually as a result of a workshop summer school or just a scientific initiative Such a collection may not be as coherent as a book by one or two authors yet it is more focused than a collection of key papers on a certain topic It is best thought of as a thematic collection a study in the area of logic and computation The new series Studies in Logic and Computation is intended to provide a home for such thematic collections Substructural logics are nonclassical logics which arose in response to problems in foundations of mathematics and logic theoretical computer science mathematical linguistics and category theory They include intuitionistic logic relevant logic BCK logic linear logic and Lambek s calculus of syntactic categories Substructural logics differ from classical logics and from each other in their presuppositions about Gentzen s structural rules although their presuppositions about the deductive role of logical constants are invariant Substructural logics have been a subject of study for logicians during the last sixty years Specialists have often worked in isolation however largely unaware of the contributions of others This book brings together new papers by some of the most eminent authorities in these varioustraditions to produce a unified view of substructural logics **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 *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 **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 Advances in Logic Based Intelligent Systems Kazumi Nakamatsu,Jair Minoro Abe,2005 LAPTEC 2005 promoted the discussion and interaction between researchers and practitioners focused on both theoretical and practical disciplines concerning logics applied to technology with diverse backgrounds including all kinds of intelligent systems having classical or non classical logics as underlying common matters

Proof Theory and Algebra in Logic Hiroakira Ono,2019-08-02 This book offers a concise introduction to both proof theory and algebraic methods the core of the syntactic and semantic study of logic respectively The importance of combining these two has been increasingly recognized in recent years It highlights the contrasts between the deep concrete results using the former and the general abstract ones using the latter Covering modal logics many valued logics superintuitionistic and substructural logics together with their algebraic semantics the book also provides an introduction to nonclassical logic for undergraduate or graduate level courses The book is divided into two parts Proof Theory in Part I and Algebra in Logic in Part II Part I presents sequent systems and discusses cut elimination and its applications in detail It also provides simplified proof of cut elimination making the topic more accessible The last chapter of Part I is devoted to clarification of the classes of logics that are discussed in the second part Part II focuses on algebraic semantics for these logics At the same time it is a gentle introduction to the basics of algebraic logic and universal algebra with many examples of their applications in logic Part II can be read independently of Part I with only minimum knowledge required and as such is suitable as a textbook for short introductory courses on algebra in logic **Metainferences in Substructural Logics** Paula Teijeiro,Eduardo

Alejandro Barrio,2026-01-19 This book provides a comprehensive overview of different logics from a metainferential standpoint It starts with a metainferential presentation of Classical Logic and then moves onto other systems where one or more structural metainferences fail These logics maybe considered non classical in a robust sense since they allow to build theories which are non transitive non reflexive non monotonic and non contractive In some other sense though they also preserve many desirable features of classical logics and thus may have an advantage over other non classical alternatives The authors show how these logics can be characterized both model and proof theoretically Besides some standard inferential properties emphasis is placed on metainferential theorems some of them quite standard such as Cut elimination and other more idiosyncratic such as metainferential Soundness and Completeness It ends with a philosophical chapter which intends to illustrate some of these logics applications mainly regarding non classical treatments of paradoxes Each chapter comes with exercises which help fix the central concepts learn to use some of the formal tools and problematize the philosophical issues at stake This book is aimed to anyone interested in the question of reasoning argumentation and theory building in the presence of contradictions paradoxes and other puzzles **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 Bulletin of Symbolic Logic* ,2009

Proofs and Models in Philosophical Logic Greg Restall,2022-04-21 This Element is an introduction to recent work proofs and models in philosophical logic with a focus on the semantic paradoxes the sorites paradox It introduces and motivates different proof systems and different kinds of models for a range of logics including classical logic intuitionistic logic a range of three valued and four valued logics and substructural logics It also compares and contrasts the different approaches to substructural treatments of the paradox showing how the structural rules of contraction cut and identity feature in paradoxical derivations It then introduces model theoretic treatments of the paradoxes including a simple fixed point model construction which generates three valued models for theories of truth which can provide models for a range of different non classical logics The Element closes with a discussion of the relationship between proofs and models arguing that both have their place in the philosophers and logicians toolkits Generalized Galois Logics Katalin Bimbó,J. Michael Dunn,2008 Nonclassical logics have played an increasing role in recent years in disciplines ranging from mathematics and computer science to linguistics and philosophy Generalized Galois Logics develops a uniform framework of relational semantics to mediate between logical calculi and their semantics through algebra This volume addresses normal modal logics such as K and S5 and substructural logics including relevance logics linear logic and Lambek calculi The authors also treat less familiar and new logical systems with equal deftness **Meeting Strength in Substructural Logics** Yde

Venema,1993 *Quantifiers, Propositions and Identity* Robert Goldblatt,2011-07-14 Develops new semantical characterisations of many logical systems with quantification that are incomplete under the traditional Kripkean possible worlds interpretation This book is for mathematical or philosophical logicians computer scientists and linguists including academic researchers teachers and advanced students **Reports on Mathematical Logic** ,2006 Logic Wilfrid Hodges,1996 This book contains twenty one essays by leading authorities on aspects of contemporary logic ranging from foundations of set theory to applications of logic in computing and in the theory of fields In those parts of logic closest to computer science the gap between foundations and applications is often small as illustrated by three essays on the proof theory of non classical logics There are also chapters on the lambda calculus on relating logic programs to inductive definitions on Buechi and Presburger arithmetics and on definability in Lindenbaum algebras Aspects of constructive mathematics discussed are embeddings of Heyting algebras and proofs in mathematical anslysis Set theory is well covered with six chapters discussing Cohen forcing Baire category determinancy Nash Williams theory critical points and the remarkable connection between them and properties of left distributive operations and independent structures The longest chapter in the book is a survey of 0 minimal structures by Lou van den Dries during the last ten years these structures have come to take a central place in applications of model theory to fields and function theory and this chapter is the first broad survey of the area Other chapters illustrate how to apply model theory to field theory complex geometry and groups and how to recover from its automorphism group Finally one chapter applies to the theory of toric varieties to solve problems about many valued logics *Theories of Types and Proofs* Takahashi, Masako,1998-12 □□□□□□□ ,1995 *Journal of Applied Non-classical Logics* ,2008

Substructural Logics Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Substructural Logics**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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