

APPLIED LOGIC SERIES **2**

Proof Theory of Modal Logic

**Heinrich
Wansing
(Ed.)**



Springer-Science+Business Media, B.V.

Proof Theory Of Modal Logic

M. Kracht



Proof Theory Of Modal Logic:

Proof Theory of Modal Logic Heinrich Wansing, 1996-10-31 This volume deals with formal mechanizable reasoning in modal logics that is logics of necessity possibility belief time computations etc It is therefore of immense interest for various interrelated disciplines such as philosophy AI computer science logic cognitive science and linguistics The book consists of 15 original research papers divided into three parts The first part contains papers which give a profound description of powerful proof theoretic methods as applied to the normal modal logic S4 Part II is concerned with a number of generalizations of the standard proof theoretic formats while the third part presents new and important results on semantics based proof systems for modal logic

Proof Theory of Modal Logic Heinrich Wansing, 2014-01-15

Proof Theory of Modal Logic Heinrich Wansing, 2013-06-29 Proof Theory of Modal Logic is devoted to a thorough study of proof systems for modal logics that is logics of necessity possibility knowledge belief time computations etc It contains many new technical results and presentations of novel proof procedures The volume is of immense importance for the interdisciplinary fields of logic knowledge representation and automated deduction

Displaying Modal Logic Heinrich Wansing, 2013-03-14 The present monograph is a slightly revised version of my Habilitationsschrift Proof theoretic Aspects of Intensional and Non Classical Logics successfully defended at Leipzig University November 1997 It collects work on proof systems for modal and constructive logics I have done over the last few years The main concern is display logic a certain refinement of Gentzen's sequent calculus developed by Nuel D Belnap This book is far from offering a comprehensive presentation of generalized sequent systems for modal logics broadly conceived The proof theory of non classical logics is a rapidly developing field and even the generalizations of the ordinary notion of sequent listed in Chapter 1 can hardly be presented in great detail within a single volume In addition to further investigating the various approaches toward generalized Gentzen systems it is important to compare them and to discuss their relative advantages and disadvantages An initial attempt at bringing together work on different kinds of proof systems for modal logics has been made in 188 Another step in the same direction is 196 Since Chapter 1 contains introductory considerations and moreover every remaining chapter begins with some surveying or summarizing remarks in this preface I shall only emphasize a relation to philosophy that is important to me register the sources of papers that have entered this book in some form or another and acknowledge advice and support

The Unprovability of Consistency George Boolos, 1979-04-30 The Unprovability of Consistency is concerned with connections between two branches of logic proof theory and modal logic Modal logic is the study of the principles that govern the concepts of necessity and possibility proof theory is in part the study of those that govern provability and consistency In this book George Boolos looks at the principles of provability from the standpoint of modal logic In doing so he provides two perspectives on a debate in modal logic that has persisted for at least thirty years between the followers of C I Lewis and W V O Quine The author employs semantic methods developed by Saul Kripke in his analysis of modal logical systems The book

will be of interest to advanced undergraduate and graduate students in logic mathematics and philosophy as well as to specialists in those fields

The Proof Theory and Semantics of Intuitionistic Modal Logic Alex K. Simpson, 1994
Abstract Possible world semantics underlies many of the applications of modal logic in computer science and philosophy The standard theory arises from interpreting the semantic definitions in the ordinary meta theory of informal classical mathematics If however the same semantic definitions are interpreted in an intuitionistic meta theory then the induced modal logics no longer satisfy certain intuitionistically invalid principles This thesis investigates the intuitionistic modal logics that arise in this way Natural deduction systems for various intuitionistic modal logics are presented From one point of view these systems are self justifying in that a possible world interpretation of the modalities can be read off directly from the inference rules A technical justification is given by the faithfulness of translations into intuitionistic first order logic It is also established that in many cases the natural deduction systems induce well known intuitionistic modal logics previously given by Hilbert style axiomatizations The main benefit of the natural deduction systems over axiomatizations is their susceptibility to proof theoretic techniques Strong normalization and confluence results are proved for all of the systems Normalization is then used to establish the completeness of cut free sequent calculi for all of the systems and decidability for some of the systems Lastly techniques developed throughout the thesis are used to establish that those intuitionistic modal logics proved decidable also satisfy the finite model property For the logics considered decidability and the finite model property presented open problems

First Steps in Modal Logic Sally Popkorn, 1994-12-08 This is a first course in propositional modal logic suitable for mathematicians computer scientists and philosophers Emphasis is placed on semantic aspects in the form of labelled transition structures rather than on proof theory

Proof Methods for Modal and Intuitionistic Logics M. Fitting, 2013-04-18 Necessity is the mother of invention Part I What is in this book details There are several different types of formal proof procedures that logicians have invented The ones we consider are 1 tableau systems 2 Gentzen sequent calculi 3 natural deduction systems and 4 axiom systems We present proof procedures of each of these types for the most common normal modal logics S5 S4 B T D K K4 D4 KB DB and also G the logic that has become important in applications of modal logic to the proof theory of Peano arithmetic Further we present a similar variety of proof procedures for an even larger number of regular non normal modal logics many introduced by Lemmon We also consider some quasi regular logics including S2 and S3 Virtually all of these proof procedures are studied in both propositional and first order versions generally with and without the Barcan formula Finally we present the full variety of proof methods for Intuitionistic logic and of course Classical logic too We actually give two quite different kinds of tableau systems for the logics we consider two kinds of Gentzen sequent calculi and two kinds of natural deduction systems Each of the two tableau systems has its own uses each provides us with different information about the logics involved They complement each other more than they overlap Of the two Gentzen systems one is of the conventional sort common in the literature

Hybrid

Logic and its Proof-Theory Torben Braüner, 2010-11-17 This is the first book length treatment of hybrid logic and its proof theory Hybrid logic is an extension of ordinary modal logic which allows explicit reference to individual points in a model where the points represent times possible worlds states in a computer or something else This is useful for many applications for example when reasoning about time one often wants to formulate a series of statements about what happens at specific times There is little consensus about proof theory for ordinary modal logic Many modal logical proof systems lack important properties and the relationships between proof systems for different modal logics are often unclear In the present book we demonstrate that hybrid logical proof theory remedies these deficiencies by giving a spectrum of well behaved proof systems natural deduction Gentzen tableau and axiom systems for a spectrum of different hybrid logics propositional first order intensional first order and intuitionistic *Advances in Modal Logic* Rajeev Gore, Barteld Kooi, Agi Kurucz, 2014-06-18 Modal logic is a subject with ancient roots in the western logical tradition Up until the last few generations it was pursued mainly as a branch of philosophy But in recent years the subject has taken new directions with connections to topics in computer science and mathematics This volume is the proceedings of the conference of record in its field *Advances in Modal Logic* Its contributions are state of the art papers The topics include decidability and complexity results for specific modal logics proof theory of modal logic logics for reasoning about time and space provability logic dynamic epistemic logic and the logic of evidence *Arnon Avron on Semantics and Proof Theory of Non-Classical Logics* Ofer Arieli, Anna Zamansky, 2021-07-30 This book is a collection of contributions honouring Arnon Avron's seminal work on the semantics and proof theory of non classical logics It includes presentations of advanced work by some of the most esteemed scholars working on semantic and proof theoretical aspects of computer science logic Topics in this book include frameworks for paraconsistent reasoning foundations of relevance logics analysis and characterizations of modal logics and fuzzy logics hypersequent calculi and their properties non deterministic semantics algebraic structures for many valued logics and representations of the mechanization of mathematics Avron's foundational and pioneering contributions have been widely acknowledged and adopted by the scientific community His research interests are very broad spanning over proof theory automated reasoning non classical logics foundations of mathematics and applications of logic in computer science and artificial intelligence This is clearly reflected by the diversity of topics discussed in the chapters included in this book all of which directly relate to Avron's past and present works This book is of interest to computer scientists and scholars of formal logic *On the Proof Theory of the Modal Logic G* Daniel Leivant, 1979 *Gentzen Calculi for Modal Propositional Logic* Francesca Poggiolesi, 2010-11-19 The book is about Gentzen calculi for the main systems of modal logic It is divided into three parts In the first part we introduce and discuss the main philosophical ideas related to proof theory and we try to identify criteria for distinguishing good sequent calculi In the second part we present the several attempts made from the 50's until today to provide modal logic with Gentzen calculi In the third and final part we analyse new calculi for modal logics called tree hypersequent calculi which

were recently introduced by the author We show in a precise and clear way the main results that can be proved with and about them

Proof Theory of Programming Logics John Philip Privitera,1981 *Basic Proof Theory* A. S. Troelstra,H. Schwichtenberg,2000-07-27 This introduction to the basic ideas of structural proof theory contains a thorough discussion and comparison of various types of formalization of first order logic Examples are given of several areas of application namely the metamathematics of pure first order logic intuitionistic as well as classical the theory of logic programming category theory modal logic linear logic first order arithmetic and second order logic In each case the aim is to illustrate the methods in relatively simple situations and then apply them elsewhere in much more complex settings There are numerous exercises throughout the text In general the only prerequisite is a standard course in first order logic making the book ideal for graduate students and beginning researchers in mathematical logic theoretical computer science and artificial intelligence For the new edition many sections have been rewritten to improve clarity new sections have been added on cut elimination and solutions to selected exercises have been included *On the Proof Theory of the Modal Logic \mathcal{G} and \mathcal{D}* Leivant,1979

Saul Kripke on Modal Logic Yale Weiss,Romina Birman,2024-10-02 This edited volume brings together papers by both eminent and rising scholars to celebrate Saul Kripke s singular contributions to modal logic Kripke s work on modal logic helped usher in a new semantic epoch for the field and made facility with modal logic indispensable not only to technically oriented philosophers but to theoretical computer scientists and others as well This volume features previously unpublished work of Kripke s as well as a brief intellectual biography recounting the story of how Kripke became interested in and made his first contributions to modal logic However the majority of the volume s contributions are forward looking and produce new philosophical and technical insights by engaging with ideas tracing back to Kripke

Computational Logic and Proof Theory Georg Gottlob,Alexander Leitsch,Daniele Mundici,1993 The Third Kurt G Tools and Techniques in Modal Logic M. Kracht,1999-06-17 This book treats modal logic as a theory with several subtheories such as completeness theory correspondence theory duality theory and transfer theory and is intended as a course in modal logic for students who have had prior contact with modal logic and who wish to study it more deeply It presupposes training in mathematical or logic Very little specific knowledge is presupposed most results which are needed are proved in this book

Logic and Its Applications C. Aiswarya,Prabal Kumar Sen,Shashi Mohan Srivastava,2025-05-27 This book constitutes the refereed proceedings of the 11th Indian Conference on Logic and Its Applications ICLA 2025 held in Kolkata India during February 3 5 2025 Four out the five invited talks are included in this book Out of the 26 submissions the program committee carefully selected 14 papers to be included in the proceedings The topics included are Mathematics Computer Science Philosophy Linguistics and Cognitive Science A special feature of ICLA is the inclusion of studies in systems of logic in the Indian tradition as well as historical research on logic

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