LEIGH S. CAUMAN

First-order Logic

An Introduction

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Firstorder Logic An Introduction

CHOWDHARY, K. R.

Firstorder Logic An Introduction:

First-order Logic Leigh S. Cauman,1998 An introduction to principles and notation of modern symbolic logic for those with no prior courses The structure of material follows that of Quine s Methods of Logic and may be used as an introduction to that work with sections on truth functional logic predicate logic relational logic and identity and description Exercises are based on problems designed by authors including Quine John Cooley Richard Jeffrey and Lewis Carroll Annotation copyrighted by Book News Inc Portland OR <u>Metalogic</u> Geoffrey Hunter,1973-06-26 This work makes available to readers without specialized training in mathematics complete proofs of the fundamental metatheorems of standard i e basically truth functional first order logic Included is a complete proof accessible to non mathematicians of the undecidability of first order logic the most important fact about logic to emerge from the work of the last half century Hunter explains concepts of mathematics and set theory along the way for the benefit of non mathematicians He also provides ample exercises with comprehensive answers **First-Order Logic** John Heil,2021-10-06 In his introduction to this most welcome republication and second edition of his logic text Heil clarifies his aim in writing and revising this book I believe that anyone unfamiliar with the subject who set out to learn formal logic could do so relying solely on this book That in any case is what I set out to create in writing An Introduction to First Order Logic Heil has certainly accomplished this with perhaps the most explanatorily thorough and pedagogically rich text I ve personally come across Heil s text stands out as being remarkably careful in its presentation and illuminating in its explanations especially given its relatively short length when compared to the average logic textbook It hits all of the necessary material that must be covered in an introductory deductive logic course and then some It also takes occasional excursions into side topics successfully whetting the reader s appetite for more advanced studies in logic The book is clearly written by an expert who has put in the effort for his readers bothering at every step to see the point and then explain it clearly to his readers Heil has found some very clever original ways to introduce motivate and otherwise teach this material The author s own special expertise and perspective especially when it comes to tying philosophy of mind linguistics and philosophy of language into the lessons of logic make for a creative and fresh take on basic logic With its unique presentation and illuminating explanations this book comes about as close as a text can come to imitating the learning environment of an actual classroom Indeed working through its presentations carefully the reader feels as though he or she has just attended an illuminating lecture on the relevant topics Jonah Schupbach University of Utah **First-Order Logic** Raymond R. Smullyan,2012-12-06 Except for this preface this study is completely self contained It is intended to serve both as an introduction to Quantification Theory and as an exposition of new results and techniques in analytic or cut free methods We use the term analytic to apply to any proof procedure which obeys the subformula principle we think of such a procedure as analysing the formula into its successive components Gentzen cut free systems are perhaps the best known example of ana lytic proof procedures Natural deduction systems though not usually analytic can be made so

as we demonstrated in 3 In this study we emphasize the tableau point of view since we are struck by its simplicity and mathematical elegance Chapter I is completely introductory We begin with preliminary material on trees necessary for the tableau method and then treat the basic syntactic and semantic fundamentals of propositional logic We use the term Boolean valuation to mean any assignment of truth values to all formulas which satisfies the usual truth table conditions for the logical connectives Given an assignment of truth values to all propositional variables the truth values of all other formulas under this assignment is usually defined by an inductive procedure We indicate in Chapter I how this inductive definition can be made explicit to this end we find useful the notion of a formation tree which we discuss earlier **First Order Mathematical Logic** Angelo Margaris,1990-01-01 Attractive and well written introduction Journal of Symbolic Logic The logic that mathematicians use to prove their theorems is itself a part of mathematics in the same way that algebra analysis and geometry are parts of mathematics This attractive and well written introduction to mathematical logic is aimed primarily at undergraduates with some background in college level mathematics however little or no acquaintance with abstract mathematics is needed Divided into three chapters the book begins with a brief encounter of na ve set theory and logic for the beginner and proceeds to set forth in elementary and intuitive form the themes developed formally and in detail later In Chapter Two the predicate calculus is developed as a formal axiomatic theory The statement calculus presented as a part of the predicate calculus is treated in detail from the axiom schemes through the deduction theorem to the completeness theorem Then the full predicate calculus is taken up again and a smooth running technique for proving theorem schemes is developed and exploited Chapter Three is devoted to first order theories i e mathematical theories for which the predicate calculus serves as a base Axioms and short developments are given for number theory and a few algebraic theories Then the metamathematical notions of consistency completeness independence categoricity and decidability are discussed The predicate calculus is proved to be complete The book concludes with an outline of Godel s incompleteness theorem Ideal for a one semester course this concise text offers more detail and mathematically relevant examples than those available in elementary books on logic Carefully chosen exercises with selected answers help students test their grasp of the material For any student of mathematics logic or the interrelationship of the two this book represents a thought provoking introduction to the logical underpinnings of mathematical theory An excellent text Mathematical Reviews *The Blackwell Guide to the Philosophy of Computing and Information* Luciano Floridi,2008-04-15 This Guide provides an ambitious state of the art survey of the fundamental themes problems arguments and theories constituting the philosophy of computing A complete guide to the philosophy of computing and information Comprises 26 newly written chapters by leading international experts Provides a complete critical introduction to the field Each chapter combines careful scholarship with an engaging writing style Includes an exhaustive glossary of technical terms Ideal as a course text but also of interest to researchers and general readers **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 **Logic for Programming, Artificial Intelligence, and Reasoning** Nachum Dershowitz,Andrei Voronkov,2007-10-07 This book constitutes the refereed proceedings of the 14th International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 2007 held in Yerevan Armenia It contains 36 revised full papers 15 short papers and three invited talks that were carefully selected from 78 submissions The papers address all current issues in logic programming logic based program manipulation formal method automated reasoning and various kinds of AI logics **First Order Logic** Heil,1994-01-01 This textbook is intended to cover the standard material in an elementary first order symbolic logic course The author s goal is to introduce the elements of first order logic gradually in small steps as dearly as possible This book strikes a balance between highly theoretical texts and those that focus on the applications of logic The emphasis is on the construction of translations and derivations within a broad theoretical framework

From Logic to Logic Programming Kees Doets,1994 This mathematically oriented introduction to the theory of logic programming presents a systematic exposition of the resolution method for propositional first order and Horn clause logics together with an analysis of the semantic aspects of the method It is through the inference rule of resolution that both proofs and computations can be manipulated on computers and this book contains elegant versions and proofs of the fundamental theorems and lemmas in the proof theory of logic programming Advanced topics such as recursive complexity and negation as failure and its semantics are covered and streamlined setups for SLD and SLDNF resolution are described No other book treats this material in such detail and with such sophistication Doets provides a novel approach to resolution that is applied to the first order case and the case of positive logic programs In contrast to the usual approach the concept of a resolvent is defined nonconstructively without recourse to the concept of unification allowing the soundness and completeness proofs to be carried out in a more economic way Other new material includes computability results dealing with analytical hierarchy results on infinite derivations and an exposition on general logic programs using 3 valued logic An Historical Introduction to the Philosophy of Mathematics: A Reader Russell Marcus,Mark McEvoy,2016-02-11 A comprehensive collection of historical readings in the philosophy of mathematics and a selection of influential contemporary work this much needed introduction reveals the rich history of the subject An Historical Introduction to the Philosophy of Mathematics A Reader brings together an impressive collection of primary sources from ancient and modern philosophy Arranged chronologically and featuring introductory overviews explaining technical terms this accessible reader is easy to follow and unrivaled in its

historical scope With selections from key thinkers such as Plato Aristotle Descartes Hume and Kant it connects the major ideas of the ancients with contemporary thinkers A selection of recent texts from philosophers including Quine Putnam Field and Maddy offering insights into the current state of the discipline clearly illustrates the development of the subject Presenting historical background essential to understanding contemporary trends and a survey of recent work An Historical Introduction to the Philosophy of Mathematics A Reader is required reading for undergraduates and graduate students studying the philosophy of mathematics and an invaluable source book for working researchers   Introduction to Formal Philosophy Sven Ove Hansson,Vincent F. Hendricks,2018-10-24 This Undergraduate Textbook introduces key methods and examines the major areas of philosophy in which formal methods play pivotal roles Coverage begins with a thorough introduction to formalization and to the advantages and pitfalls of formal methods in philosophy The ensuing chapters show how to use formal methods in a wide range of areas Throughout the contributors clarify the relationships and interdependencies between formal and informal notions and constructions Their main focus is to show how formal treatments of philosophical problems may help us understand them better Formal methods can be used to solve problems but also to express new philosophical problems that would never have seen the light of day without the expressive power of the formal apparatus Formal philosophy merges work in different areas of philosophy as well as logic mathematics computer science linguistics physics psychology biology economics political theory and sociology This title offers an accessible introduction to this new interdisciplinary research area to a wide academic audience   **Compositionality: The Significant Difference** Willem-Paul de Roever,Hans Langmaack,Amir Pnueli,2003-05-20 This book originates from the International Symposium on Compositionality COMPOS 97 held in Bad Malente Germany in September 1997 The 25 chapters presented in revised full version reflect the current state of the art in the area of compositional reasoning about concurrency The book is a valuable reference for researchers and professionals interested in formal systems design and analysis it also is well suited for self study and use in advanced courses   **Theory and Applications of Models of Computation** Manindra Agrawal,2008-04-08 This book constitutes the refereed proceedings of the 5th International Conference on Theory and Applications of Models of Computation TAMC 2008 held in Xi an China in April 2008 The 48 revised full papers presented together with 2 invited talks and 1 plenary lecture were carefully reviewed and selected from 192 submissions The papers address current issues of all major areas in computer science mathematics especially logic and the physical sciences computation algorithms complexity and computability theory in particular With this crossdisciplinary character the conference is given a special flavor and distinction   Automated Deduction -- CADE-23 Nikolaj Bjørner,Viorica Sofronie-Stokkermans,2011-07-12 This book constitutes the refereed proceedings of the 23rd International Conference on Automated Deduction CADE 23 held in Wroc aw Poland in July August 2011 The 28 revised full papers and 7 system descriptions presented were carefully reviewed and selected from 80 submissions Furthermore four invited lectures by

distinguished experts in the area were included Among the topics addressed are systems and tools for automated reasoning rewriting logics security protocol verification unification theorem proving clause elimination SAT satifiability interactive theorem proving theory reasoning static analysis decision procedures etc **Foundations of Software Science and Computational Structures** Luca De Alfaro,2009-03-09 This book constitutes the refereed proceedings of the 12th International Conference on Foundations of Software Science and Computational Structures FOSSACS 2009 held in York UK in March 2009 as part of ETAPS 2009 the European Joint Conferences on Theory and Practice of Software The 30 revised full papers presented together with two invited talks were carefully reviewed and selected from 102 full paper submissions The topics addressed are semantics logics and automata algebras automata theory processes and models security probabilistic and quantitative models synthesis and program analysis and semantics **Knowledge Engineering and the Semantic Web** Pavel Klinov,Dmitry Mouromtsev,2013-09-07 This book constitutes the refereed proceedings of the 4th Conference on Knowledge Engineering and the Semantic Web KESW 2013 held in St Petersburg Russia in October 2013 The 18 revised full papers presented together with 7 short system descriptions were carefully reviewed and selected from 52 submissions The papers address research issues related to knowledge representation semantic web and linked data FUNDAMENTALS OF DISCRETE MATHEMATICAL STRUCTURES, THIRD EDITION CHOWDHARY, K. R.,2015-01-02 This updated text now in its Third Edition continues to provide the basic concepts of discrete mathematics and its applications at an appropriate level of rigour The text teaches mathematical logic discusses how to work with discrete structures analyzes combinatorial approach to problem solving and develops an ability to create and understand mathematical models and algorithms essentials for writing computer programs Every concept introduced in the text is first explained from the point of view of mathematics followed by its relation to Computer Science In addition it offers excellent coverage of graph theory mathematical reasoning foundational material on set theory relations and their computer representation supported by a number of worked out examples and exercises to reinforce the students skill Primarily intended for undergraduate students of Computer Science and Engineering and Information Technology this text will also be useful for undergraduate and postgraduate students of Computer Applications New to this Edition Incorporates many new sections and subsections such as recurrence relations with constant coefficients linear recurrence relations with and without constant coefficients rules for counting and shorting Peano axioms graph connecting graph scanning algorithm lexicographic shorting chains antichains and order isomorphism complemented lattices isomorphic order sets cyclic groups automorphism groups Abelian groups group homomorphism subgroups permutation groups cosets and quotient subgroups Includes many new worked out examples definitions theorems exercises and GATE level MCQs with answers **FM'99 - Formal Methods** Jeannette M. Wing,Jim Woodcook,Jim Davies,1999-09-13 Formal methods are coming of age Mathematical techniques and tools are now regarded as an important part of the development process in a wide range of industrial and governmental organisations A transfer of technology into

the mainstream of systems development is slowly but surely taking place FM 99 the First World Congress on Formal Methods in the Development of Computing Systems is a result and a measure of this new found maturity It brings an impressive array of industrial and applications oriented papers that show how formal methods have been used to tackle real problems These proceedings are a record of the technical symposium ofFM 99 alo side the papers describingapplicationsofformalmethods youwill ndtechnical reports papers andabstracts detailing new advances in formaltechniques from mathematical foundations to practical tools The World Congress is the successor to the four Formal Methods Europe Symposia which in turn succeeded the four VDM Europe Symposia This s cession re ects an increasing openness within the international community of researchers and practitioners papers were submitted covering a wide variety of formal methods and application areas The programmecommittee re ects the Congress s international nature with a membership of 84 leading researchersfrom 38 di erent countries The comm tee was divided into 19 tracks each with its own chair to oversee the reviewing process Our collective task was a di cult one there were 259 high quality s missions from 35 di erent countries *Introduction to Model Theory* Philipp Rothmaler,2000-10-31 Model theory investigates mathematical structures by means of formal languages So called first order languages have proved particularly useful in this respect This text introduces the model theory of first order logic avoiding syntactical issues not too relevant to model theory In this spirit the compactness theorem is proved via the algebraically useful ultrsproduct technique rather than via the completeness theorem of first order logic This leads fairly quickly to algebraic applications like Malcev s local theorems of group theory and after a little more preparation to Hilbert s Nullstellensatz of field theory Steinitz dimension theory for field extensions is obtained as a special case of a much more general model theoretic treatment of strongly minimal theories There is a final chapter on the models of the first order theory of the integers as an abelian group Both these topics appear here for the first time in a textbook at the introductory level and are used to give hints to further reading and to recent developments in the field such as stability or classification theory

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