

Mathematical Logic

Theorem 1.2.29: Let p , q , and r be statements. Then the following logical equivalences hold.

- (i) **Commutative laws:** $p \wedge q \equiv q \wedge p$ and $p \vee q \equiv q \vee p$
- (ii) **Associative laws:** $(p \wedge q) \wedge r \equiv p \wedge (q \wedge r)$ and
 $(p \vee q) \vee r \equiv p \vee (q \vee r)$
- (iii) **Distributive laws:** $p \vee (q \wedge r) \equiv (p \vee q) \wedge (p \vee r)$ and
 $p \wedge (q \vee r) \equiv (p \wedge q) \vee (p \wedge r)$
- (iv) **Absorption laws:** $p \wedge (p \vee q) \equiv p$ and $p \vee (p \wedge q) \equiv p$
- (v) **Idempotent laws:** $p \wedge p \equiv p$ and $p \vee p \equiv p$
- (vi) **Double negation law:** $\sim\sim p \equiv p$
- (vii) **DeMorgan's laws:** $\sim(p \wedge q) \equiv (\sim p) \vee (\sim q)$ and
 $\sim(p \vee q) \equiv (\sim p) \wedge (\sim q)$

Mathematical Logic

Peter B. Andrews



Mathematical Logic:

Modern Mathematical Logic Joseph Mileti, 2022-09-22 This textbook gives a complete and modern introduction to mathematical logic. The author uses contemporary notation conventions and perspectives throughout and emphasizes interactions with the rest of mathematics. In addition to covering the basic concepts of mathematical logic and the fundamental material on completeness, compactness, and incompleteness, it devotes significant space to thorough introductions to the pillars of the modern subject: model theory, set theory, and computability. Requiring only a modest background of undergraduate mathematics, the text can be readily adapted for a variety of one or two semester courses at the upper undergraduate or beginning graduate level. Numerous examples reinforce the key ideas and illustrate their applications, and a wealth of classroom-tested exercises serve to consolidate readers' understanding. Comprehensive and engaging, this book offers a fresh approach to this enduringly fascinating and important subject. **Introduction to**

Mathematical Logic, Fourth Edition Elliott Mendelson, 1997-06-01 The Fourth Edition of this long-established text retains all the key features of the previous editions, covering the basic topics of a solid first course in mathematical logic. This edition includes an extensive appendix on second-order logic, a section on set theory with urelements, and a section on the logic that results when we allow models with empty domains. The text contains numerous exercises, and an appendix furnishes answers to many of them. **Introduction to Mathematical Logic** includes propositional logic, first-order logic, first-order number theory, and the incompleteness and undecidability theorems of Gödel, Rosser, Church, and Tarski. Axiomatic set theory, theory of computability, the study of mathematical logic, axiomatic set theory, and computability theory provide an understanding of the fundamental assumptions and proof techniques that form the basis of mathematics. Logic and computability theory have also become indispensable tools in theoretical computer science, including artificial intelligence. **Introduction to Mathematical Logic** covers these topics in a clear, reader-friendly style that will be valued by anyone working in computer science as well as lecturers and researchers in mathematics, philosophy, and related fields. Mathematical Logic and the Foundations of

Mathematics G. T. Kneebone, 1963 **Mathematical Logic** Ian Chiswell, Wilfrid Hodges, 2007-05-17 Assuming no previous study in logic, this informal yet rigorous text covers the material of a standard undergraduate first course in mathematical logic, using natural deduction and leading up to the completeness theorem for first-order logic. At each stage of the text, the reader is given an intuition based on standard mathematical practice, which is subsequently developed with clean formal mathematics. Alongside the practical examples, readers learn what can and cannot be calculated; for example, the correctness of a derivation proving a given sequent can be tested mechanically, but there is no general mechanical test for the existence of a derivation proving the given sequent. The undecidability results are proved rigorously in an optional final chapter, assuming Matiyasevich's theorem characterising the computably enumerable relations. Rigorous proofs of the adequacy and completeness of the relevant logics are provided with careful attention to the languages involved. Optional sections

discuss the classification of mathematical structures by first order theories the required theory of cardinality is developed from scratch Throughout the book there are notes on historical aspects of the material and connections with linguistics and computer science and the discussion of syntax and semantics is influenced by modern linguistic approaches Two basic themes in recent cognitive science studies of actual human reasoning are also introduced Including extensive exercises and selected solutions this text is ideal for students in Logic Mathematics Philosophy and Computer Science *A Course on Mathematical Logic* Shashi Mohan Srivastava, 2013-01-16 This is a short modern and motivated introduction to mathematical logic for upper undergraduate and beginning graduate students in mathematics and computer science Any mathematician who is interested in getting acquainted with logic and would like to learn Gödel's incompleteness theorems should find this book particularly useful The treatment is thoroughly mathematical and prepares students to branch out in several areas of mathematics related to foundations and computability such as logic axiomatic set theory model theory recursion theory and computability In this new edition many small and large changes have been made throughout the text The main purpose of this new edition is to provide a healthy first introduction to model theory which is a very important branch of logic Topics in the new chapter include ultraproduct of models elimination of quantifiers types applications of types to model theory and applications to algebra number theory and geometry Some proofs such as the proof of the very important completeness theorem have been completely rewritten in a more clear and concise manner The new edition also introduces new topics such as the notion of elementary class of structures elementary diagrams partial elementary maps homogeneous structures definability and many more *Handbook of Mathematical Logic* J. Barwise, 1982-03-01 The handbook is divided into four parts model theory set theory recursion theory and proof theory Each of the four parts begins with a short guide to the chapters that follow Each chapter is written for non specialists in the field in question Mathematicians will find that this book provides them with a unique opportunity to apprise themselves of developments in areas other than their own

Mathematical Logic for Computer Science Mordechai Ben-Ari, 2012-06-16 Mathematical Logic for Computer Science is a mathematics textbook with theorems and proofs but the choice of topics has been guided by the needs of students of computer science The method of semantic tableaux provides an elegant way to teach logic that is both theoretically sound and easy to understand The uniform use of tableaux based techniques facilitates learning advanced logical systems based on what the student has learned from elementary systems The logical systems presented are propositional logic first order logic resolution and its application to logic programming Hoare logic for the verification of sequential programs and linear temporal logic for the verification of concurrent programs The third edition has been entirely rewritten and includes new chapters on central topics of modern computer science SAT solvers and model checking *Mathematical Logic* Roman Kossak, 2018-10-03 This book presented in two parts offers a slow introduction to mathematical logic and several basic concepts of model theory such as first order definability types symmetries and elementary extensions Its first part Logic Sets

and Numbers shows how mathematical logic is used to develop the number structures of classical mathematics The exposition does not assume any prerequisites it is rigorous but as informal as possible All necessary concepts are introduced exactly as they would be in a course in mathematical logic but are accompanied by more extensive introductory remarks and examples to motivate formal developments The second part Relations Structures Geometry introduces several basic concepts of model theory such as first order definability types symmetries and elementary extensions and shows how they are used to study and classify mathematical structures Although more advanced this second part is accessible to the reader who is either already familiar with basic mathematical logic or has carefully read the first part of the book Classical developments in model theory including the Compactness Theorem and its uses are discussed Other topics include tameness minimality and order minimality of structures The book can be used as an introduction to model theory but unlike standard texts it does not require familiarity with abstract algebra This book will also be of interest to mathematicians who know the technical aspects of the subject but are not familiar with its history and philosophical background [A Concise Introduction to Mathematical Logic](#) Wolfgang Rautenberg,2006-09-28

While there are already several well known textbooks on mathematical logic this book is unique in treating the material in a concise and streamlined fashion This allows many important topics to be covered in a one semester course Although the book is intended for use as a graduate text the first three chapters can be understood by undergraduates interested in mathematical logic The remaining chapters contain material on logic programming for computer scientists model theory recursion theory Godel s Incompleteness Theorems and applications of mathematical logic Philosophical and foundational problems of mathematics are discussed throughout the text **Mathematical Logic**

Heinz-Dieter Ebbinghaus,Jörg Flum,Wolfgang Thomas,2021-05-28 This introduction to first order logic clearly works out the role of first order logic in the foundations of mathematics particularly the two basic questions of the range of the axiomatic method and of theorem proving by machines It covers several advanced topics not commonly treated in introductory texts such as Fra ss s characterization of elementary equivalence Lindstr m s theorem on the maximality of first order logic and the fundamentals of logic programming **Mathematical Logic** Joseph R. Shoenfield,2001-02-09 8 3 The consistency proof 8 4 Applications of the consistency proof 8 5 Second order arithmetic Problems Chapter 9 Set Theory 9 1 Axioms for sets 9 2 Development of set theory 9 3 Ordinals 9 4 Cardinals 9 5 Interpretations of set theory 9 6 Constructible sets 9 7 The axiom of constructibility 9 8 Forcing 9 9 The independence proofs 9 10 Large cardinals Problems Appendix The Word Problem Index

[Introduction To Mathematical Logic \(Extended Edition\)](#) Michal Walicki,2016-08-12 This is a systematic and well paced introduction to mathematical logic Excellent as a course text the book presupposes only elementary background and can be used also for self study by more ambitious students Starting with the basics of set theory induction and computability it covers propositional and first order logic their syntax reasoning systems and semantics Soundness and completeness results for Hilbert s and Gentzen s systems are presented along with simple decidability arguments The general applicability of

various concepts and techniques is demonstrated by highlighting their consistent reuse in different contexts Unlike in most comparable texts presentation of syntactic reasoning systems precedes the semantic explanations The simplicity of syntactic constructions and rules of a high though often neglected pedagogical value aids students in approaching more complex semantic issues This order of presentation also brings forth the relative independence of syntax from the semantics helping to appreciate the importance of the purely symbolic systems like those underlying computers An overview of the history of logic precedes the main text while informal analogies precede introduction of most central concepts These informal aspects are kept clearly apart from the technical ones Together they form a unique text which may be appreciated equally by lecturers and students occupied with mathematical precision as well as those interested in the relations of logical formalisms to the problems of computability and the philosophy of logic This revised edition contains also besides many new exercises a new chapter on semantic paradoxes An equivalence of logical and graphical representations allows us to see vicious circularity as the odd cycles in the graphical representation and can be used as a simple tool for diagnosing paradoxes in natural discourse

An Introduction to Mathematical Logic and Type Theory Peter B. Andrews, 2013-04-17 In case you are considering to adopt this book for courses with over 50 students please contact ties.nijssen@springer.com for more information This introduction to mathematical logic starts with propositional calculus and first order logic Topics covered include syntax semantics soundness completeness independence normal forms vertical paths through negation normal formulas compactness Smullyan's Unifying Principle natural deduction cut elimination semantic tableaux Skolemization Herbrand's Theorem unification duality interpolation and definability The last three chapters of the book provide an introduction to type theory higher order logic It is shown how various mathematical concepts can be formalized in this very expressive formal language This expressive notation facilitates proofs of the classical incompleteness and undecidability theorems which are very elegant and easy to understand The discussion of semantics makes clear the important distinction between standard and nonstandard models which is so important in understanding puzzling phenomena such as the incompleteness theorems and Skolem's Paradox about countable models of set theory Some of the numerous exercises require giving formal proofs A computer program called ETPS which is available from the web facilitates doing and checking such exercises Audience This volume will be of interest to mathematicians computer scientists and philosophers in universities as well as to computer scientists in industry who wish to use higher order logic for hardware and software specification and verification

Mathematical Logic René Cori, Daniel Lascar, 2000 Logic forms the basis of mathematics and is hence a fundamental part of any mathematics course It is a major element in theoretical computer science and has undergone a huge revival with the every growing importance of computer science This text is based on a course to undergraduates and provides a clear and accessible introduction to mathematical logic The concept of model provides the underlying theme giving the text a theoretical coherence whilst still covering a wide area of logic The foundations having

been laid in Part I this book starts with recursion theory a topic essential for the complete scientist Then follows Godel s incompleteness theorems and axiomatic set theory Chapter 8 provides an introduction to model theory There are examples throughout each section and varied selection of exercises at the end Answers to the exercises are given in the appendix

Introduction to Mathematical Logic Michał Walicki, 2012 This is a systematic and well paced introduction to mathematical logic Excellent as a course text the book does not presuppose any previous knowledge and can be used also for self study by more ambitious students Starting with the basics of set theory induction and computability it covers propositional and first order logic their syntax reasoning systems and semantics Soundness and completeness results for Hilbert s and Gentzen s systems are presented along with simple decidability arguments The general applicability of various concepts and techniques is demonstrated by highlighting their consistent reuse in different contexts Unlike in most comparable texts presentation of syntactic reasoning systems precedes the semantic explanations The simplicity of syntactic constructions and rules of a high though often neglected pedagogical value aids students in approaching more complex semantic issues This order of presentation also brings forth the relative independence of syntax from the semantics helping to appreciate the importance of the purely symbolic systems like those underlying computers An overview of the history of logic precedes the main text in which careful presentation of concepts results and examples is accompanied by the informal analogies and illustrations These informal aspects are kept clearly apart from the technical ones Together they form a unique text which may be appreciated equally by lecturers and students occupied with mathematical precision as well as those interested in the relations of logical formalisms to the problems of computability and the philosophy of mathematical logic

Mathematical Logic Willard Van Orman Quine, 1947 **What Is Mathematical Logic?** J. N. Crossley, C.J. Ash, C.J. Brickhill, J.C. Stillwell, 2012-08-29 A serious introductory treatment geared toward non logicians this survey traces the development of mathematical logic from ancient to modern times and discusses the work of Planck Einstein Bohr Pauli Heisenberg Dirac and others 1972 edition *Mathematical Logic* H.-D. Ebbinghaus, J. Flum, Wolfgang Thomas, 2013-03-14 What is a mathematical proof How can proofs be justified Are there limitations to provability To what extent can machines carry out mathematical proofs Only in this century has there been success in obtaining substantial and satisfactory answers The present book contains a systematic discussion of these results The investigations are centered around first order logic Our first goal is Godel s completeness theorem which shows that the consequence relation coincides with formal provability By means of a calculus consisting of simple formal inference rules one can obtain all consequences of a given axiom system and in particular imitate all mathematical proofs A short digression into model theory will help us to analyze the expressive power of the first order language and it will turn out that there are certain deficiencies For example the first order language does not allow the formulation of an adequate axiom system for arithmetic or analysis On the other hand this difficulty can be overcome even in the framework of first order logic by developing mathematics in set theoretic terms We explain the

prerequisites from set theory necessary for this purpose and then treat the subtle relation between logic and set theory in a thorough manner

Mathematical Logic and Computation Jeremy Avigad, 2022-11-09 This new book on mathematical logic by Jeremy Avigad gives a thorough introduction to the fundamental results and methods of the subject from the syntactic point of view emphasizing logic as the study of formal languages and systems and their proper use Topics include proof theory model theory the theory of computability and axiomatic foundations with special emphasis given to aspects of mathematical logic that are fundamental to computer science including deductive systems constructive logic the simply typed lambda calculus and type theoretic foundations Clear and engaging with plentiful examples and exercises it is an excellent introduction to the subject for graduate students and advanced undergraduates who are interested in logic in mathematics computer science and philosophy and an invaluable reference for any practicing logician's bookshelf

Mathematical Logic and Formalized Theories Robert L. Rogers, 2014-05-12 Mathematical Logic and Formalized Theories A Survey of Basic Concepts and Results focuses on basic concepts and results of mathematical logic and the study of formalized theories The manuscript first elaborates on sentential logic and first order predicate logic Discussions focus on first order predicate logic with identity and operation symbols first order predicate logic with identity completeness theorems elementary theories deduction theorem interpretations truth and validity sentential connectives and tautologies The text then tackles second order predicate logic as well as second order theories theory of definition and second order predicate logic F2 The publication takes a look at natural and real numbers incompleteness and the axiomatic set theory Topics include paradoxes recursive functions and relations Gödel's first incompleteness theorem axiom of choice metamathematics of $\mathcal{R}$ and elementary algebra and metamathematics of $\mathcal{N}$ The book is a valuable reference for mathematicians and researchers interested in mathematical logic and formalized theories

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