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Set Theory and Logic Studies in Logic and Probability A Profile of Mathematical Logic First-Order Logic First Course in Mathematical Logic Introduction to Logic Logic for Mathematicians Set Theory and Logic Mathematical Logic A Beginner's Guide to Mathematical Logic Mathematics and Logic An Introduction to Mathematical Logic First Order Mathematical Logic Mathematical Logic and the Foundations of Mathematics Logic Introduction to Elementary Mathematical Logic Logic and Relational Theory Logic and Databases Logic: The Theory of Formal Inference Logic: A History of its Central Concepts *Robert Roth Stoll George Boole Howard DeLong Raymond R. Smullyan Patrick Suppes Patrick Suppes J. Barkley Rosser Robert Roth Stoll Stephen Cole Kleene Raymond M. Smullyan Mark Kac Richard E. Hodel Angelo Margaris G. T. Kneebone W. E. Johnson Abram Aronovich Stolyar C. J. Date C. J. Date Alice Ambrose Dov M. Gabbay*

the best introductory text we have seen cosmos lucidly and gradually explains sets and relations the natural number sequence and its generalization extension of natural numbers to real numbers logic informal axiomatic mathematics boolean algebras informal axiomatic set theory several algebraic theories and 1st order theories its clarity makes this book excellent for self study

authoritative compilation ranges from the mathematical analysis of logic to the end of boole s career includes the laws of thought plus incomplete studies intended for a follow up volume 1952 edition

this introduction to mathematical logic explores philosophical issues and gödel s theorem its widespread influence extends to the author of gödel escher bach whose pulitzer prize winning book was inspired by this work

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 analytic 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

starting with symbolizing sentences and sentential connectives this work proceeds to the rules of logical inference and sentential derivation examines the concepts of truth and validity and presents a series of truth tables subsequent topics include terms predicates and universal quantifiers universal specification and laws of identity axioms for addition and universal generalization 1964 edition index

part i of this coherent well organized text deals with formal principles of inference and definition part ii explores elementary intuitive set theory with separate chapters on sets relations and functions ideal for undergraduates

examination of essential topics and theorems assumes no background in logic undoubtedly a major addition to the literature of mathematical logic bulletin of the american mathematical society 1978 edition

undergraduate students with no prior instruction in mathematical logic will benefit from this multi part text part i offers an elementary but thorough overview of mathematical logic of 1st order part ii introduces some of the newer ideas and the more profound results of logical research in the 20th century 1967 edition

combining stories of great writers and philosophers with quotations and riddles this original text for first courses in mathematical logic examines problems related to proofs propositional logic and first order logic undecidability and other topics 2014 edition

fascinating study of the origin and nature of mathematical thought including relation of mathematics and science 20th century developments impact of computers and more includes 34 illustrations 1968 edition

this comprehensive overview of mathematical logic is designed primarily for advanced undergraduates and graduate students of mathematics the treatment also contains

much of interest to advanced students in computer science and philosophy topics include propositional logic first order languages and logic incompleteness undecidability and indefinability recursive functions computability and hilbert's tenth problem reprint of the pws publishing company boston 1995 edition

ideal for students intending to specialize in the topic part i discusses traditional and symbolic logic part ii explores the foundations of mathematics part iii focuses on the philosophy of mathematics

this lucid non intimidating presentation by a russian scholar explores propositional logic propositional calculus and predicate logic topics include computer science and systems analysis linguistics and problems in the foundations of mathematics accessible to high school students it also constitutes a valuable review of fundamentals for professionals 1970 edition

this book is a revised upgraded and hugely improved version of an earlier one called logic and databases although it's effectively a brand new book therefore the following remarks from that earlier book are still relevant here first logic and databases are inextricably intertwined the relational model itself is essentially just elementary logic tailored to database needs now if you're a database professional this won't be news to you but you still might not realize just how much everything we do in the database world is or should be affected by logic logic is fundamental and everywhere as a database professional therefore you owe it to yourself to understand the basics of formal logic and you ought to be able to explain and perhaps defend the connections between formal logic and database technology and that's what this book is about what it does is show through a series of partly independent partly interrelated essays just how various crucial aspects of database technology some of them very familiar others maybe less so are solidly grounded in formal logic overall the goal is to help you realize the importance of logic in everything you do and also i hope to help you see that logic can be fun

logic and databases are inextricably intertwined the relational model in particular is essentially just elementary predicate logic tailored to fit the needs of database management now if you're a database professional i'm sure this isn't news to you but you still might not realize just how much everything we do in the database world is or should be affected by predicate logic logic is everywhere so if you're a database professional you really owe it to yourself to understand the basics of formal logic and you really ought to be able to explain and perhaps defend the connections between formal logic and database management and that's what this book is about what it does is show through a series of partly independent and partly interrelated essays just how various crucial aspects of database technology some of them very familiar others maybe less so are solidly grounded in formal logic it is divided into five parts basic logic logic and database management logic and database design logic and algebra logic and the third manifesto there's also a lengthy appendix containing a collection of frequently asked questions and some answers on various aspects of logic and database management overall my goal is to help you realize the importance of logic in everything you do and also i hope to help you see that logic can be fun

geared toward college undergraduates new to the subject this concise introduction to formal logic was written by alice ambrose and morris lazerowitz a pair of noted

scholars and prolific authors in this field a preliminary section opens the subject under the heading of truth functions two subsequent parts on quantification and classes each subdivided into numerous brief specifics complete the overview suitable for students of philosophy as well as mathematics the three part treatment begins with the intuitive development of the standard theory of sentential connectives called operators the theory is further developed with the assistance of truth tables and ultimately as a logistic system part ii explores first order quantification theory in addition to examining most of the familiar laws that can be expressed by monadic formulas the text addresses polyadic principles and the theories of identity and descriptions part iii focuses on elementary concepts of classes from class membership and class inclusion to the algebra of classes each part concludes with a series of exercises

the handbook of the history of logic is a multi volume research instrument that brings to the development of logic the best in modern techniques of historical and interpretative scholarship it is the first work in english in which the history of logic is presented so extensively the volumes are numerous and large authors have been given considerable latitude to produce chapters of a length and a level of detail that would lay fair claim on the ambitions of the project to be a definitive research work authors have been carefully selected with this aim in mind they and the editors join in the conviction that a knowledge of the history of logic is nothing but beneficial to the subject s present day research programmes one of the attractions of the handbook s several volumes is the emphasis they give to the enduring relevance of developments in logic throughout the ages including some of the earliest manifestations of the subject covers in depth the notion of logical consequence discusses the central concept in logic of modality includes the use of diagrams in logical reasoning

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