

A Course in Model Theory

An Introduction to Contemporary
Mathematical Logic

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Wolfgang Rautenberg, 2010-07-01 Mathematical logic developed into a broad discipline with many applications in mathematics informatics linguistics and philosophy This text introduces the fundamentals of this field and this new edition has been thoroughly expanded and revised **A Guide to Classical and Modern Model Theory** Annalisa Marcja, Carlo Toffalori, 2012-09-10 Since its birth Model Theory has been developing a number of methods and concepts that have their intrinsic relevance but also provide fruitful and notable applications in various fields of Mathematics It is a lively and fertile research area which deserves the attention of the mathematical world This volume is easily accessible to young people and mathematicians unfamiliar with logic gives a terse historical picture of Model Theory introduces the latest developments in the area provides hands on proofs of elimination of quantifiers elimination of imaginaries and other relevant matters A Guide to Classical and Modern Model Theory is for trainees and professional model theorists mathematicians working in Algebra and Geometry and young people with a basic knowledge of logic **Introduction to Mathematical Logic** Elliott

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Model Theory : An Introduction David Marker,2006-04-06 Assumes only a familiarity with algebra at the beginning graduate level Stresses applications to algebra Illustrates several of the ways Model Theory can be a useful tool in analyzing classical mathematical structures

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Handbook of Practical Logic and Automated Reasoning John Harrison,2009-03-12 A one stop reference self contained with theoretical topics presented in conjunction with implementations for which code is supplied

A Short Course on Operator Semigroups Klaus-Jochen Engel,Rainer Nagel,2006-06-06 The book offers a direct and up to date introduction to the theory of one parameter semigroups of linear operators on Banach spaces The book is intended for students and researchers who want to become acquainted with the concept of semigroups

Quantum Calculus Victor Kac,Pokman Cheung,2012-12-06 Simply put quantum calculus is ordinary calculus without taking limits This undergraduate text develops two types of quantum calculi the q calculus and the h calculus As this book develops quantum calculus along the lines of traditional calculus the reader discovers with a remarkable inevitability many important notions and results of classical mathematics This book is written at the level of a first course in calculus and linear algebra and is aimed at undergraduate and beginning graduate students in mathematics computer science and physics It is based on lectures and seminars given by MIT Professor Kac over the last few years at MIT

Elements of Finite Model Theory Leonid Libkin,2013-03-09 Finite model theory is an area of mathematical logic that

grew out of computer science applications The main sources of motivational examples for finite model theory are found in database theory computational complexity and formal languages although in recent years connections with other areas such as formal methods and verification and artificial intelligence have been discovered The birth of finite model theory is often identified with Trakhtenbrot's result from 1950 stating that validity over finite models is not recursively enumerable in other words completeness fails over finite models The technique of the proof based on encoding Turing machine computations as finite structures was reused by Fagin almost a quarter century later to prove his celebrated result that put the equality sign between the class NP and existential second order logic thereby providing a machine independent characterization of an important complexity class In 1982 Immerman and Vardi showed that over ordered structures a fixed point extension of first order logic captures the complexity class PTIME of polynomial time computable properties Shortly thereafter logical characterizations of other important complexity classes were obtained This line of work is often referred to as descriptive complexity A different line of finite model theory research is associated with the development of relational databases By the late 1970s the relational database model had replaced others and all the basic query languages for it were essentially first order predicate calculus or its minor extensions

Introduction to Hyperbolic Geometry Arlan Ramsay, Robert D. Richtmyer, 2013-03-09 This book is an introduction to hyperbolic and differential geometry that provides material in the early chapters that can serve as a textbook for a standard upper division course on hyperbolic geometry For that material the students need to be familiar with calculus and linear algebra and willing to accept one advanced theorem from analysis without proof The book goes well beyond the standard course in later chapters and there is enough material for an honors course or for supplementary reading Indeed parts of the book have been used for both kinds of courses Even some of what is in the early chapters would surely not be necessary for a standard course For example detailed proofs are given of the Jordan Curve Theorem for Polygons and of the decomposability of polygons into triangles These proofs are included for the sake of completeness but the results themselves are so believable that most students should skip the proofs on a first reading The axioms used are modern in character and more user friendly than the traditional ones The familiar real number system is used as an ingredient rather than appearing as a result of the axioms However it should not be thought that the geometric treatment is in terms of models this is an axiomatic approach that is just more convenient than the traditional ones

Models, Logics, and Higher-dimensional Categories Bradd T. Hart, Proceedings of a conference held at Centre de recherches mathématiques of the Université de Montréal June 18-20 2009 *A First Course in Discrete Dynamical Systems* Richard A. Holmgren, 2012-09-05 Discrete dynamical systems are essentially iterated functions Given the ease with which computers can do iteration it is now possible for anyone with access to a personal computer to generate beautiful images whose roots lie in discrete dynamical systems Images of Mandelbrot and Julia sets abound in publications both mathematical and not The mathematics behind the pictures are beautiful in their own right and are the subject of this text The level of the

presentation is suitable for advanced undergraduates with a year of calculus behind them Students in the author's courses using this material have come from numerous disciplines many have been majors in other disciplines who are taking mathematics courses out of general interest Concepts from calculus are reviewed as necessary Mathematica programs that illustrate the dynamics and that will aid the student in doing the exercises are included in an appendix **Dependence**

Logic Samson Abramsky, Juha Kontinen, Jouko Väänänen, Heribert Vollmer, 2016-06-29 In this volume different aspects of logics for dependence and independence are discussed including both the logical and computational aspects of dependence logic and also applications in a number of areas such as statistics social choice theory databases and computer security The contributing authors represent leading experts in this relatively new field each of whom was invited to write a chapter based on talks given at seminars held at the Schloss Dagstuhl Leibniz Center for Informatics in Wadern Germany in February 2013 and June 2015 and an Academy Colloquium at the Royal Netherlands Academy of Arts and Sciences March 2014 Altogether these chapters provide the most up to date look at this developing and highly interdisciplinary field and will be of interest to a broad group of logicians mathematicians statisticians philosophers and scientists Topics covered include a comprehensive survey of many propositional modal and first order variants of dependence logic new results concerning expressive power of several variants of dependence logic with different sets of logical connectives and generalized dependence atoms connections between inclusion logic and the least fixed point logic an overview of dependencies in databases by addressing the relationships between implication problems for fragments of statistical conditional independencies embedded multivalued dependencies and propositional logic various Markovian models used to characterize dependencies and causality among variables in multivariate systems applications of dependence logic in social choice theory and an introduction to the theory of secret sharing pointing out connections to dependence and independence logic *Intuitive Combinatorial Topology* V.G. Boltyanskii, V.A. Efremovich, 2001-03-30 Topology is a relatively young and very important branch of mathematics which studies the properties of objects that are preserved through deformations twistings and stretchings This book deals with the topology of curves and surfaces as well as with the fundamental concepts of homotopy and homology and does this in a lively and well motivated way This book is well suited for readers who are interested in finding out what topology is all about *A First Journey through Logic* Martin Hils, François Loeser, 2019-09-11 The aim of this book is to present mathematical logic to students who are interested in what this field is but have no intention of specializing in it The point of view is to treat logic on an equal footing to any other topic in the mathematical curriculum The book starts with a presentation of naive set theory the theory of sets that mathematicians use on a daily basis Each subsequent chapter presents one of the main areas of mathematical logic first order logic and formal proofs model theory recursion theory Gödel's incompleteness theorem and finally the axiomatic set theory Each chapter includes several interesting highlights outside of logic when possible either in the main text or as exercises or appendices Exercises are an essential component of the book and a good number of them are

designed to provide an opening to additional topics of interest

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