Elements of Logic and Foundations of Mathematics in Problems

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Logical Foundations of Mathematics and Computational Complexity Pavel Pudlák,2013-04-22 The two main themes of this book logic and complexity are both essential for understanding the main problems about the foundations of mathematics Logical Foundations of Mathematics and Computational Complexity covers a broad spectrum of results in logic and set theory that are relevant to the foundations as well as the results in computational complexity and the interdisciplinary area of proof complexity The author presents his ideas on how these areas are connected what are the most fundamental problems and how they should be approached In particular he argues that complexity is as important for foundations as are the more traditional concepts of computability and provability Emphasis is on explaining the essence of concepts and the ideas of proofs rather than presenting precise formal statements and full proofs Each section starts with concepts and results easily explained and gradually proceeds to more difficult ones The notes after each section present some formal definitions theorems and proofs Logical Foundations of Mathematics and Computational Complexity is aimed at graduate students of all fields of mathematics who are interested in logic complexity and foundations It will also be of interest for both physicists and philosophers who are curious to learn the basics of logic and complexity theory **Subject Guide to Books in Print** ,1996 Logic, Automata, and Algorithms ,1971-07-01 In this book we study theoretical and practical aspects of computing methods for mathematical modelling of nonlinear systems A number of computing techniques are considered such as methods of operator approximation with any given accuracy operator interpolation techniques including a non Lagrange interpolation methods of system representation subject to constraints associated with concepts of causality memory and stationarity methods of system representation with an accuracy that is the best within a given class of models methods of covariance matrix estimation methods for low rank matrix approximations hybrid methods based on a combination of iterative procedures and best operator approximation andmethods for information compression and filtering under condition that a filter model should satisfy restrictions associated with causality and different types of memory As a result the book represents a blend of new methods in general computational analysis and specific but also generic techniques for study of systems theory ant its particularbranches such as optimal filtering and information compression Best operator approximation Non Lagrange interpolation Generic Karhunen Loeve transform Generalised low rank matrix approximation Optimal data compression Optimal nonlinear filtering **Logic: Foundations, the P-vs-NP-Problem and Information-Theoretic Perspectives** Lucien Sina,2025-07-30 This groundbreaking textbook presents a new approach to the study of logic by combining classical foundations with modern information theoretic perspectives Following a detailed introduction it offers an information theoretic formalization of logic Subsequently well known but still unsolved problems such as the P versus NP problem are addressed using the provided tools An optimization algorithm for the target

requirements of logical problem solving regarding computability expressiveness and consistency is presented and finally a few applications in other fields are showcased The book offers students and researchers a comprehensive journey through the fundamental principles of logic while introducing innovative concepts at the intersection of logic information theory and computational complexity Key features include Solid foundations in classical logic including propositional and predicate logic validity and formal inference Novel integration of Shannon s information theory with traditional logical concepts Exploration of new approaches to axiomatization and formalization in light of G del s incompleteness results In depth analysis of the P versus NP problem with information theoretic and optimization approaches Clear explanations and examples suitable for beginners and beyond Applications in mathematics computer science and related fields *Axiomatic Method and Category Theory* Andrei Rodin,2013-10-14 This volume explores the many different meanings of the notion of the axiomatic method offering an insightful historical and philosophical discussion about how these notions changed over the millennia The author a well known philosopher and historian of mathematics first examines Euclid who is considered the father of the axiomatic method before moving onto Hilbert and Lawvere He then presents a deep textual analysis of each writer and describes how their ideas are different and even how their ideas progressed over time Next the book explores category theory and details how it has revolutionized the notion of the axiomatic method It considers the question of identity equality in mathematics as well as examines the received theories of mathematical structuralism In the end Rodin presents a hypothetical New Axiomatic Method which establishes closer relationships between mathematics and physics Lawvere s axiomatization of topos theory and Voevodsky s axiomatization of higher homotopy theory exemplify a new way of axiomatic theory building which goes beyond the classical Hilbert style Axiomatic Method The new notion of Axiomatic Method that emerges in categorical logic opens new possibilities for using this method in physics and other natural sciences This volume offers readers a coherent look at the past present and anticipated future of the Axiomatic Method Automated Deduction - CADE-21 Frank Pfenning,2007-07-05 A veritable one stop shop for anyone looking to get up to speed on what is going down in the field of automated deduction right now This book contains the refereed proceedings of the 21st International Conference on Automated Deduction CADE 21 held in Bremen Germany in July 2007 The 28 revised full papers and 6 system descriptions presented were selected from 64 submissions All current aspects of automated deduction are addressed ranging from theoretical and methodological issues to presentation and evaluation of theorem provers and logical reasoning systems **International Books in Print** ,1986 **Aspects of Modern Logic** E.W. Beth,2012-12-06 It is common to consider an area of science as a system of real or sup posed truths which not only continuously extends itself but also needs periodical revision and therefore tests the inventive capacity of each generation of scholars anew It sounds highly implausible that a science at one time would be completed that at that point within its scope there would be no problems left to solve Indeed the solution of a scientific problem inevitably raises new questions so that our eagerness for knowledge will never find lasting

satisfaction Nevertheless there is one science which seems to form an exception to this rule formal logic the theory of rigorous argumentation It seems to have reached the ideal endpoint of every scientific aspiration already very shortly after its inception using the work of some predecessors Aristotle or so it is at least assumed by many has brought this branch of science once and for all to a conclusion Of course this doesn t sound that implausible We apparently know what rigorous argumentation is otherwise various sciences in particular pure mathematics would be completely impossible And if we know what rigorous argumentation is then it cannot be difficult to trace once and for all the rules which govern it The unique subject of formal logic would therefore entail that this science in variance with the rule which holds for all other sciences has been able to reach completion at a certain point in history   **A New Logical Foundation for Psychology** Jens Mammen,2017-11-03 This SpringerBrief provides an interdisciplinary synthesis based on psychology logic mathematics cognitive science and the history of science It presents psychology as a science that suffers from a reduced understanding of the most fundamental logic in our practical bodily encounters with the world including with our fellow human beings The Brief offers a new dual logic that is based on the duality between identification and description of objects including persons The Brief ties in modern mathematics as a tool that can be used to catch this duality in a precise manner Featured topics in this Brief include The emergence of Mechanism The duality in animal and human subject object relations Psychology s compatibility with natural sciences Four cornerstones of modern mathematics The Extensional Method A New Logical Foundation for Psychology will be of interest to psychologist philosophers and mathematicians concerned with basic theoretical and methodological problems   Philosophy of Ethics and Society Hector Davidson, This book consists of the following titles and topics Adam Smith Ayn Rand Baruch Spinoza Bertrand Russell Camus Critical Theory Cynicism Epicurus Feminist Philosophy Humanism Liberalism Mary Wollstonecraft Montesquieu Moral Philosophy Naturalism Niccolo Machiavelli Parmenides Peter Singer Political Philosophy Simone Weil Socrates Transcendentalism Utilitarianism

   Inquiries and Provocations Herbert Feigl,2012-12-06 The title is his own Herbert Feigl the provocateur and the soul if we may put it so of modesty wrote to me some years ago I m more of a catalyst than producer of new and original ideas all my life but then he com pleted the self appraisal with just a few exceptions perhaps We need not argue for the creative nature of catalysis but will simply remark that there are new and original ideas in the twenty four papers selected for this volume in the extraordinary aperrus of the 25 year old Feigl in his Vienna dissertation of 1927 on Zufall und Gesetz in the creative critique and articulation in his classical monograph of 1958 on The Mental and the Physical and the reader will want to turn to some of the seventy other titles in our Feigl bibliography appended Professor Feigl has been a model philosophical worker above all else honest self aware open minded and open hearted keenly devotedly and even arduously the student of the sciences he has been a logician and an empiricist Early on he brought the Vienna Circle to America and much later he helped to bring it back to Central Europe The story of the logical empiricist movement and of Herbert Feigl s part in it has often

been told importantly by Feigl himself in four papers we have included here   *The Development of Modern Logic* Leila Haaparanta,2009-06-18 This edited volume presents a comprehensive history of modern logic from the Middle Ages through the end of the twentieth century In addition to a history of symbolic logic the contributors also examine developments in the philosophy of logic and philosophical logic in modern times The book begins with chapters on late medieval developments and logic and philosophy of logic from Humanism to Kant The following chapters focus on the emergence of symbolic logic with special emphasis on the relations between logic and mathematics on the one hand and on logic and philosophy on the other This discussion is completed by a chapter on the themes of judgment and inference from 1837 1936 The volume contains a section on the development of mathematical logic from 1900 1935 followed by a section on main trends in mathematical logic after the 1930s The volume goes on to discuss modal logic from Kant till the late twentieth century and logic and semantics in the twentieth century the philosophy of alternative logics the philosophical aspects of inductive logic the relations between logic and linguistics in the twentieth century the relationship between logic and artificial intelligence and ends with a presentation of the main schools of Indian logic The Development of Modern Logic includes many prominent philosophers from around the world who work in the philosophy and history of mathematics and logic who not only survey developments in a given period or area but also seek to make new contributions to contemporary research in the field It is the first volume to discuss the field with this breadth of coverage and depth and will appeal to scholars and students of logic and its philosophy   Logic for Applications Anil Nerode,Richard A. Shore,2012-12-06 In writing this book our goal was to produce a text suitable for a first course in mathematical logic more attuned than the traditional textbooks to the re cent dramatic growth in the applications oflogic to computer science Thus our choice oftopics has been heavily influenced by such applications Of course we cover the basic traditional topics syntax semantics soundnes5 completeness and compactness as well as a few more advanced results such as the theorems of Skolem Lowenheim and Herbrand Much ofour book however deals with other less traditional topics Resolution theorem proving plays a major role in our treatment of logic especially in its application to Logic Programming and PRO LOG We deal extensively with the mathematical foundations ofall three ofthese subjects In addition we include two chapters on nonclassical logics modal and intuitionistic that are becoming increasingly important in computer sci ence We develop the basic material on the syntax and semantics via Kripke frames for each of these logics In both cases our approach to formal proofs soundness and completeness uses modifications of the same tableau method in troduced for classical logic We indicate how it can easily be adapted to various other special types of modal logics A number of more advanced topics includ ing nonmonotonic logic are also briefly introduced both in the nonclassical logic chapters and in the material on Logic Programming and PROLOG   The World as a Mathematical Game Giorgio Israel,Ana Millán Gasca,2009-04-24 Galileo and Newton s work towards the mathematisation of the physical world Leibniz s universal logical calculus the Enlightenment s math matique sociale John von Neumann inherited all these aims and

philosophical intuitions together with an idea that grew up around the Vienna Circle of an ethics in the form of an exact science capable of guiding individuals to make correct decisions With the help of his boundless mathematical capacity von Neumann developed a conception of the world as a mathematical game a world globally governed by a universal logic in which individual consciousness moved following different strategies his vision guided him from set theory to quantum mechanics to economics and to his theory of automata anticipating artificial intelligence and cognitive science This book provides the first comprehensive scientific and intellectual biography of John von Neumann a man who perhaps more than any other is representative of twentieth century science **An Outline of Mathematical Logic** A. Grzegorczyk,2013-03-07 Recent years have seen the appearance of many English Ianguage hand books of logie and numerous monographs on topieal discoveries in the foundations of mathematies These publications on the foundations of mathematies as a whole are rather difficult for the beginners or refer the reader to other handbooks and various pieeemeal eontribu tions and also sometimes to largely conceived mathematical fol klore of unpublished results As distinct from these the present book is as easy as possible systematic exposition of the now classical results in the foundations of mathematics Henee the book may be useful especially for those readers who want to have all the proofs carried out in full and all the concepts explained in detail In this sense the book is self contained The reader s ability to guess is not assumed and the author s ambition was to reduce the use of sueh words as evident and obvious in proofs to aminimum This is why the book it is believed may be helpful in teaehing or learning the foundation of mathematics in those situations in which the student cannot refer to a parallel lecture on the subject This is also the reason that I do not insert in the book the last results and the most modem and fashionable approaches to the subjeet which does not enrich the essential knowledge in founda tions but ean discourage the beginner by their abstract form A G **International Scientific Conference Energy Management of Municipal Facilities and Sustainable Energy Technologies EMMFT 2019** Vera Murgul,Viktor Pukhkal,2020-08-17 This book is intended to assist to improve energy efficiency in the industrial sector The book offers case studies for industrial energy efficiency improvement and contains brief reports on cutting edge research in all fields of the energy industry This book which is composed of select research proceedings of the EMMFT 2019 conference covers such issues as good quality energy use energy generation technologies materials used for energy generation and storage technologies as well as materials for water purification petroleum engineering and digital energy systems The case studies discussed comprise the use of fossil fuel and non fossil fuel energy resources novel materials with advanced heat transport or heat resistance and energy digitalization Coverage extends to all theoretical and applied aspects of the field This book is an ideal resource for scientists and energy analysts industrial practitioners engineers researchers and postgraduate students working in the field of management and technology for improving energy efficiency in the industry Also the book is of interest to researchers engineers and laboratory personnel in the fields of power systems and smart grids *Handbook of Computability and Complexity in Analysis* Vasco Brattka,Peter Hertling,2021-06-04 Computable

analysis is the modern theory of computability and complexity in analysis that arose out of Turing s seminal work in the 1930s This was motivated by questions such as which real numbers and real number functions are computable and which mathematical tasks in analysis can be solved by algorithmic means Nowadays this theory has many different facets that embrace topics from computability theory algorithmic randomness computational complexity dynamical systems fractals and analog computers up to logic descriptive set theory constructivism and reverse mathematics In recent decades computable analysis has invaded many branches of analysis and researchers have studied computability and complexity questions arising from real and complex analysis functional analysis and the theory of differential equations up to geometric measure theory and topology This handbook represents the first coherent cross section through most active research topics on the more theoretical side of the field It contains 11 chapters grouped into parts on computability in analysis complexity dynamics and randomness and constructivity logic and descriptive complexity All chapters are written by leading experts working at the cutting edge of the respective topic Researchers and graduate students in the areas of theoretical computer science and mathematical logic will find systematic introductions into many branches of computable analysis and a wealth of information and references that will help them to navigate the modern research literature in this field *Edmund Husserl: The cutting edge : phenomenological method, philosophical logic, ontology, and philosophy of science* Rudolf Bernet,Donn Welton,Gina Zavota,2005 This collection makes available in one place the very best essays on the founding father of phenomenology reprinting key writings on Husserl s thought from the past seventy years It draws together a range of writings many otherwise inaccessible that have been recognized as seminal contributions not only to an understanding of this great philosopher but also to the development of his phenomenology The four volumes are arranged as follows Volume I Classic essays from Husserl s assistants students and earlier interlocutors Including a selection of papers from such figures as Heidegger Merleau Ponty Sartre Ricoeur and Levinas Volume II Classic commentaries on Husserl s published works Covering the Logical Investigations Ideas I Phenomenology of Internal Time Consciousness and Formal and Transcendental Logic Volumes III and IV Papers concentrating on particular aspects of Husserl s theory including Husserl s account of mathematics and logic his theory of science the nature of phenomenological reduction his account of perception and language the theory of space and time his phenomenology of imagination and empathy the concept of the life world and his epistemology *Movement and Time in the Cyberworld* Michael Eldred,2019-05-06 The cyberworld fast rolling in and impacting every aspect of human living on the globe today presents an enormous challenge to humankind It is taken up by the media following current events through to all kinds of natural and social scientific discourses Digitized technoscience develops at a breakneck pace in all areas accompanied by sociological analysis What is missing is a philosophical response genuinely posing the basic ontological question What is a digital being s peculiar mode of being The present study offers a digital ontology that analyzes the dissolution of beings into bit strings driven by mathematized science The mathematization

of knowledge reaches back to Pythagoras Plato and Aristotle and continues with Descartes Galileo Newton Leibniz Western knowledge from its inception has always been driven by an unbridled will to efficient causal power over all kinds of movement and change This historical trajectory culminates in the universal Turing machine that enables efficient automated algorithmic control over the movement of digital beings through the cyberworld The book fills in the ontological foundations underpinning this brave new cyberworld and interrogates them especially by questioning the millennia old conception of 1D linear time An alternative ontology of movement arises based on a radically alternative conception of 3D time

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