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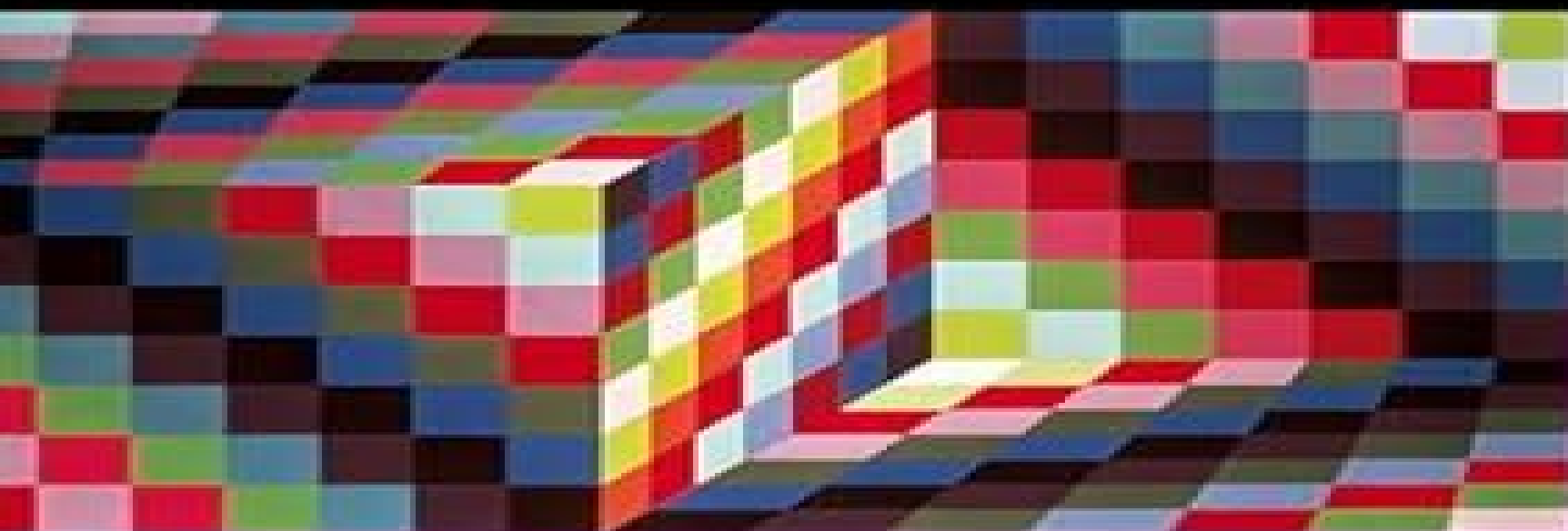# Logical Reasoning

Jan von Plato

Elements Of Logical Reasoning Jan Von Plato

Liying Dong

Elements Of Logical Reasoning Jan Von Plato:

   Elements of Logical Reasoning Jan von Plato,2014-01-23 Some of our earliest experiences of the conclusive force of an argument come from school mathematics faced with a mathematical proof we cannot deny the conclusion once the premises have been accepted Behind such arguments lies a more general pattern of demonstrative arguments that is studied in the science of logic Logical reasoning is applied at all levels from everyday life to advanced sciences and a remarkable level of complexity is achieved in everyday logical reasoning even if the principles behind it remain intuitive Jan von Plato provides an accessible but rigorous introduction to an important aspect of contemporary logic its deductive machinery He shows that when the forms of logical reasoning are analysed it turns out that a limited set of first principles can represent any logical argument His book will be valuable for students of logic mathematics and computer science   *Concepts of Proof in Mathematics, Philosophy, and Computer Science* Dieter Probst,Peter Schuster,2016-07-25 A proof is a successful demonstration that a conclusion necessarily follows by logical reasoning from axioms which are considered evident for the given context and agreed upon by the community It is this concept that sets mathematics apart from other disciplines and distinguishes it as the prototype of a deductive science Proofs thus are utterly relevant for research teaching and communication in mathematics and of particular interest for the philosophy of mathematics In computer science moreover proofs have proved to be a rich source for already certified algorithms This book provides the reader with a collection of articles covering relevant current research topics circled around the concept proof It tries to give due consideration to the depth and breadth of the subject by discussing its philosophical and methodological aspects addressing foundational issues induced by Hilbert s Programme and the benefits of the arising formal notions of proof without neglecting reasoning in natural language proofs and applications in computer science such as program extraction   *From Logic to Practice* Gabriele Lolli,Marco Panza,Giorgio Venturi,2014-11-28 This book brings together young researchers from a variety of fields within mathematics philosophy and logic It discusses questions that arise in their work as well as themes and reactions that appear to be similar in different contexts The book shows that a fairly intensive activity in the philosophy of mathematics is underway due on the one hand to the disillusionment with respect to traditional answers on the other to exciting new features of present day mathematics The book explains how the problem of applicability once again plays a central role in the development of mathematics It examines how new languages different from the logical ones mostly figural are recognized as valid and experimented with and how unifying concepts structure category set are in competition for those who look at this form of unification It further shows that traditional philosophies such as constructivism while still lively are no longer only philosophies but guidelines for research Finally the book demonstrates that the search for and validation of new axioms is analyzed with a blend of mathematical historical philosophical psychological considerations   Logical Methods Greg Restall,Shawn Standefer,2023-01-03 An accessible introduction to philosophical logic suitable for undergraduate courses and

above Rigorous yet accessible Logical Methods introduces logical tools used in philosophy including proofs models modal logics meta theory two dimensional logics and quantification for philosophy students at the undergraduate level and above The approach developed by Greg Restall and Shawn Standefer is distinct from other texts because it presents proof construction on equal footing with model building and emphasizes connections to other areas of philosophy as the tools are developed Throughout the material draws on a broad range of examples to show readers how to develop and master tools of proofs and models for propositional modal and predicate logic to construct and analyze arguments and to find their structure to build counterexamples to understand the broad sweep of formal logic s development in the twentieth and twenty first centuries and to grasp key concepts used again and again in philosophy This text is essential to philosophy curricula regardless of specialization and will also find wide use in mathematics and computer science programs Features An accessible introduction to proof theory for readers with no background in logic Covers proofs models modal logics meta theory two dimensional logics quantification and many other topics Provides tools and techniques of particular interest to philosophers and philosophical logicians Features short summaries of key concepts and skills at the end of each chapter Offers chapter by chapter exercises in two categories basic designed to reinforce important ideas and challenge designed to push students understanding and developing skills in new directions   *The Vienna Circle and Religion* Esther Ramharter,2022-03-08 This book is the first systematic and historical account of the Vienna Circle that deals with the relation of logical empiricists with religion as well as theology Given the standard image of the Vienna Circle as a strong anti metaphysical group and non religious philosophical and intellectual movement this book draws a surprising conclusion namely that several members of the famous Moritz Schlick Circle e g the left wing with Rudolf Carnap Otto Neurath Philipp Frank Edgar Zilsel but also Schlick himself dealt with the dualisms of faith belief and knowledge religion and science despite or because of their non cognitivist commitment to the values of Enlightenment One remarkable exception was the philosopher and Rabbi Joseph Sch chter who wrote explicitly on religion and philosophy after the linguistic turn The book also covers another puzzling figure the famous logician Kurt G del who wrote on theology and the ontological proof of God in his so far unpublished notebooks The book opens up new perspectives on the Vienna Circle with its internal philosophical and political pluralism and is of value to philosophers historians and anybody who is interested in the relation between science and religion   **Advances in Proof-Theoretic Semantics** Thomas Piecha,Peter Schroeder-Heister,2015-10-24 This volume is the first ever collection devoted to the field of proof theoretic semantics Contributions address topics including the systematics of introduction and elimination rules and proofs of normalization the categorial characterization of deductions the relation between Heyting s and Gentzen s approaches to meaning knowability paradoxes proof theoretic foundations of set theory Dummett s justification of logical laws Kreisel s theory of constructions paradoxical reasoning and the defence of model theory The field of proof theoretic semantics has existed for almost 50 years but the term itself was proposed by

Schroeder Heister in the 1980s Proof theoretic semantics explains the meaning of linguistic expressions in general and of logical constants in particular in terms of the notion of proof This volume emerges from presentations at the Second International Conference on Proof Theoretic Semantics in T bingen in 2013 where contributing authors were asked to provide a self contained description and analysis of a significant research question in this area The contributions are representative of the field and should be of interest to logicians philosophers and mathematicians alike *History and Philosophy of Computing* Fabio Gadducci,Mirko Tavosanis,2016-10-05 This volume constitutes the refereed post conference proceedings of the Third International Conference on the History and Philosophy of Computing held in Pisa Italy in October 2015 The 18 full papers included in this volume were carefully reviewed and selected from the 30 papers presented at the conference They cover topics ranging from the world history of computing to the role of computing in the humanities and the arts **Perspectives on Interrogative Models of Inquiry** Can Başkent,2015-10-07 This book explores the two major elements of Hintikka s model of inquiry underlying game theoretical motivations and the central role of questioning The chapters build on the Hintikkan tradition extending Hintikka s model and present a wide variety of approaches to the philosophy of inquiry from different directions ranging from erotetic logic to Lakatosian philosophy from socio epistemologic approaches to strategic reasoning and mathematical practice Hintikka s theory of inquiry is a well known example of a dynamic epistemic procedure In an interrogative inquiry the inquirer is given a theory and a question He then tries to answer the question based on the theory by posing questions to nature or an oracle The initial formulation of this procedure by Hintikka is rather broad and informal This volume introduces a carefully selected responses to the issues discussed by Hintikka The articles in the volume were contributed by various authors associated with a research project on Hintikka s interrogative theory of inquiry conducted in the Institut d Histoire et de Philosophie des Sciences et des Techniques IHPST of Paris including those who visited to share their insight *Deductive Systems in Traditional and Modern Logic* Alex Citkin,UrszulaWybraniec-Skardowska,2020-11-18 The book provides a contemporary view on different aspects of the deductive systems in various types of logics including term logics propositional logics logics of refutation non Fregean logics higher order logics and arithmetic **The Logical Syntax of Greek Mathematics** Fabio Acerbi,2021-06-21 The aim of this monograph is to describe Greek mathematics as a literary product studying its style from a logico syntactic point of view and setting parallels with logical and grammatical doctrines developed in antiquity In this way major philosophical themes such as the expression of mathematical generality and the selection of criteria of validity for arguments can be treated without anachronism Thus the book is of interest for both historians of ancient philosophy and specialists in Ancient Greek in addition to historians of mathematics This volume is divided into five parts ordered in decreasing size of the linguistic units involved The first part describes the three stylistic codes of Greek mathematics the second expounds in detail the mechanism of validation the third deals with the status of mathematical objects and the problem of mathematical generality the fourth

analyzes the main features of the deductive machine i e the suprasentential logical system dictated by the traditional division of a mathematical proposition into enunciation setting out construction and proof and the fifth deals with the sentential logical system of a mathematical proposition with special emphasis on quantification modalities and connectors A number of complementary appendices are included as well   The Square of Opposition: A Cornerstone of Thought Jean-Yves Béziau,Gianfranco Basti,2017-03-10 This is a collection of new investigations and discoveries on the theory of opposition square hexagon octagon polyhedra of opposition by the best specialists from all over the world The papers range from historical considerations to new mathematical developments of the theory of opposition including applications to theology theory of argumentation and metalogic   Prawitz's Epistemic Grounding Antonio Piccolomini d'Aragona,2023-01-01 This book presents an in depth and critical reconstruction of Prawitz s epistemic grounding and discusses it within the broader field of proof theoretic semantics The theory of grounds is also provided with a formal framework through which several relevant results are proved Investigating Prawitz s theory of grounds this work answers one of the most fundamental questions in logic why and how do some inferences have the epistemic power to compel us to accept their conclusion if we have accepted their premises Prawitz proposes an innovative description of inferential acts as applications of constructive operations on grounds for the premises yielding a ground for the conclusion The book is divided into three parts In the first the author discusses the reasons that have led Prawitz to abandon his previous semantics of valid arguments and proofs The second part presents Prawitz s grounding as found in his ground theoretic papers Finally in the third part a formal apparatus is developed consisting of a class of languages whose terms are equipped with denotation functions associating them to operations and grounds as well as of a class of systems where important properties of the terms can be proved

    Philosophy of Computing Björn Lundgren,Nancy Abigail Nuñez Hernández,2022-05-04 This book features a unique selection of works presented at the 2019 annual international conference of the International Association for Computing and Philosophy IACAP Every contribution has been peer reviewed revised and extended The included chapters are thematically diverse topics include epistemology dynamic epistemic logic topology philosophy of science and computation game theory and abductive inferences automated reasoning and mathematical proofs computer simulations scientific modelling applied ethics pedagogy human robot interactions and big data algorithms and artificial intelligence The volume is a testament to the value of interdisciplinary approaches to the computational and informational turn We live in a time of tremendous development which requires rigorous reflection on the philosophical nature of these technologies and how they are changing the world How can we understand these technologies How do these technologies change our understanding of the world And how do these technologies affect our place as humans in the world These questions and more are addressed in this volume which is of interest to philosophers engineers and computer scientists alike   **The Great Formal Machinery Works** Jan von Plato,2017-08-02 The information age owes its existence to a little known but crucial development the theoretical study

of logic and the foundations of mathematics The Great Formal Machinery Works draws on original sources and rare archival materials to trace the history of the theories of deduction and computation that laid the logical foundations for the digital revolution Jan von Plato examines the contributions of figures such as Aristotle the nineteenth century German polymath Hermann Grassmann George Boole whose Boolean logic would prove essential to programming languages and computing Ernst Schr der best known for his work on algebraic logic and Giuseppe Peano cofounder of mathematical logic Von Plato shows how the idea of a formal proof in mathematics emerged gradually in the second half of the nineteenth century hand in hand with the notion of a formal process of computation A turning point was reached by 1930 when Kurt G del conceived his celebrated incompleteness theorems They were an enormous boost to the study of formal languages and computability which were brought to perfection by the end of the 1930s with precise theories of formal languages and formal deduction and parallel theories of algorithmic computability Von Plato describes how the first theoretical ideas of a computer soon emerged in the work of Alan Turing in 1936 and John von Neumann some years later Shedding new light on this crucial chapter in the history of science The Great Formal Machinery Works is essential reading for students and researchers in logic mathematics and computer science   *Dag Prawitz on Proofs and Meaning* Heinrich Wansing,2014-11-27 This volume is dedicated to Prof Dag Prawitz and his outstanding contributions to philosophical and mathematical logic Prawitz s eminent contributions to structural proof theory or general proof theory as he calls it and inference based meaning theories have been extremely influential in the development of modern proof theory and anti realistic semantics In particular Prawitz is the main author on natural deduction in addition to Gerhard Gentzen who defined natural deduction in his PhD thesis published in 1934 The book opens with an introductory paper that surveys Prawitz s numerous contributions to proof theory and proof theoretic semantics and puts his work into a somewhat broader perspective both historically and systematically Chapters include either in depth studies of certain aspects of Dag Prawitz s work or address open research problems that are concerned with core issues in structural proof theory and range from philosophical essays to papers of a mathematical nature Investigations into the necessity of thought and the theory of grounds and computational justifications as well as an examination of Prawitz s conception of the validity of inferences in the light of three dogmas of proof theoretic semantics are included More formal papers deal with the constructive behaviour of fragments of classical logic and fragments of the modal logic S4 among other topics In addition there are chapters about inversion principles normalization of p roofs and the notion of proof theoretic harmony and other areas of a more mathematical persuasion Dag Prawitz also writes a chapter in which he explains his current views on the epistemic dimension of proofs and addresses the question why some inferences succeed in conferring evidence on their conclusions when applied to premises for which one already possesses evidence   **The Best Writing on Mathematics 2015** Mircea Pitici,2016-01-12 The year s finest writing on mathematics from around the world This annual anthology brings together the year s finest mathematics writing from around the world Featuring promising new voices

alongside some of the foremost names in the field The Best Writing on Mathematics 2015 makes available to a wide audience many articles not easily found anywhere else and you don t need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today s hottest mathematical debates Here David Hand explains why we should actually expect unlikely coincidences to happen Arthur Benjamin and Ethan Brown unveil techniques for improvising custom made magic number squares Dana Mackenzie describes how mathematicians are making essential contributions to the development of synthetic biology Steven Strogatz tells us why it s worth writing about math for people who are alienated from it Lisa Rougetet traces the earliest written descriptions of Nim a popular game of mathematical strategy Scott Aaronson looks at the unexpected implications of testing numbers for randomness and much much more In addition to presenting the year s most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed   On Language; Plato to Von Humboldt Peter H. Salus,1969   *Logic in Question* Jean-Yves Béziau,Jean-Pierre Desclés,Amirouche Moktefi,Anca Christine Pascu,2023-01-11 This contributed volume collects papers related to the Logic in Question workshop which has taken place annually at Sorbonne University in Paris since 2011 Each year the workshop brings together historians philosophers mathematicians linguists and computer scientists to explore questions related to the nature of logic and how it has developed over the years As a result chapter authors provide a thorough interdisciplinary exploration of topics that have been studied in the workshop Organized into three sections the first part of the book focuses on historical questions related to logic the second explores philosophical questions and the third section is dedicated to mathematical discussions Specific topics include logic and analogy Chinese logic nineteenth century British logic in particular Boole and Lewis Carroll logical diagrams the place and value of logic in Louis Couturat s philosophical thinking contributions of logical analysis for mathematics education the exceptionality of logic the logical expressive power of natural languages the unification of mathematics via topos theory Logic in Question will appeal to pure logicians historians of logic philosophers linguists and other researchers interested in the history of logic making this volume a unique and valuable contribution to the field   **The Lvov-Warsaw School. Past and Present** Ángel Garrido,Urszula Wybraniec-Skardowska,2018-06-12 This is a collection of new investigations and discoveries on the history of a great tradition the Lvov Warsaw School of logic and mathematics by the best specialists from all over the world The papers range from historical considerations to new philosophical logical and mathematical developments of this impressive School including applications to Computer Science Mathematics Metalogic Scientific and Analytic Philosophy Theory of Models and Linguistics   *Epistemic Justification* Richard Swinburne,2001-06-21 Richard Swinburne offers an original treatment of a question at the heart of epistemology what makes a belief a rational one or one

which the believer is justified in holding He maps the various totally different and purportedly rival accounts that philosophers give of epistemic justification internalist and externalist and argues that they are really accounts of different concepts He distinguishes as most epistemologists do not between synchronic justification justification at a time and diachronic justification synchronic justification resulting from adequate investigation both internalist and externalist He argus that most kinds of justification are worth having because for different reasons indicative of truth However it is only justification of intermalist kinds that can guide a believer s actions Swinburne goes on to show the usefulness of the probability calculus in elucidating how empirical evidence makes beliefs probably true every proposition has an intrinsic probability an a priori probability independent of empirical evidence which may be increased or decreased by empirical evidence This innovative and challenging book will refresh epistemology and rewrite its agenda

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