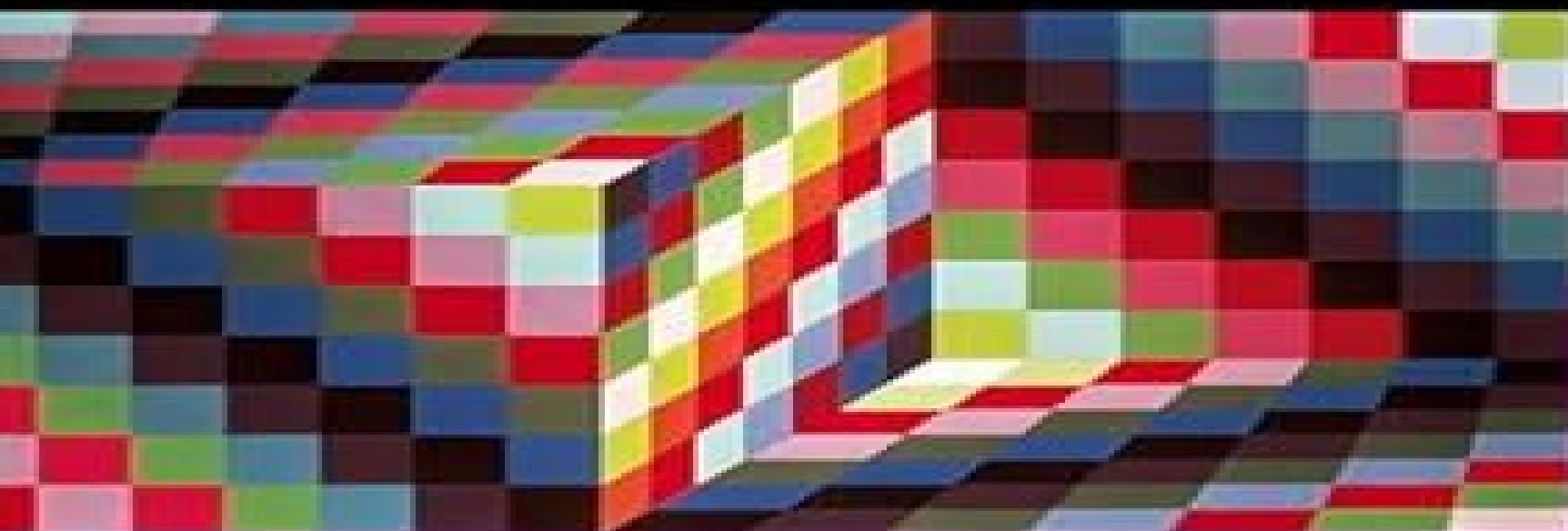


Elements of **Logical Reasoning**

Jan von Plato



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Elements Of Logical Reasoning Jan Von Plato

**Alex Citkin, Urszula Wybraniec-
Skardowska**



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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 Schachter who wrote explicitly on religion and philosophy after the linguistic turn The book also covers another puzzling figure the famous logician Kurt Godel 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 Tbingen 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 Bařkent, 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, Urszula Wybraniec-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 Enigmatic Realm of **Elements Of Logical Reasoning Jan Von Plato**: Unleashing the Language is Inner Magic

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