

Table 3: Some Valid Formulas of Propositional Calculus

law	formula
Law of identity	$p \equiv p$
Law of double negation	$p \equiv \sim\sim p$
Law of excluded middle	$p \vee \sim p$
Law of noncontradiction	$\sim(p \cdot \sim p)$
De Morgan laws	$(p \cdot q) \equiv \sim(\sim p \vee \sim q)$ $(p \vee q) \equiv \sim(\sim p \cdot \sim q)$
Commutative laws	$(p \vee q) \equiv (q \vee p)$ $(p \cdot q) \equiv (q \cdot p)$
Associative laws	$[(p \vee q) \vee r] \equiv [p \vee (q \vee r)]$ $[(p \cdot q) \cdot r] \equiv [p \cdot (q \cdot r)]$
Law of transposition	$(p \supset q) \equiv (\sim q \supset \sim p)$
Distributive laws	$[p \cdot (q \vee r)] \equiv [(p \cdot q) \vee (p \cdot r)]$ $[p \vee (q \cdot r)] \equiv [(p \vee q) \cdot (p \vee r)]$
Law of permutation	$[p \supset (q \supset r)] \equiv [q \supset (p \supset r)]$
Law of syllogism	$(p \supset q) \supset [(q \supset r) \supset (p \supset r)]$
Law of importation	$[p \supset (q \supset r)] \supset [(p \cdot q) \supset r]$
Law of exportation	$[(p \cdot q) \supset r] \supset [p \supset (q \supset r)]$

Formal Deductive Logic

Robert Hahn



Formal Deductive Logic:

Formal Deductive Logic Hahn,2001-08 *Formal Deductive Logic* Rob Hahn,1996-01-01 **Formal Deductive Logic** Robert Hahn,1994-08 **Basic Logic; the Fundamental Principles of Formal Deductive Reasoning** Raymond Joseph McCall,1952 Though the essential plan and purpose of the first edition remain unaltered this book has been completely rewritten Many sections have been modified to achieve greater lucidity for the student and greater precision for the instructor Among the topics included are induction and deduction simple apprehension terms judgement propositions and hypothetical and categorical syllogisms BASIC LOGIC treats of simple apprehension judgement and proposition deduction and syllogism in a simple and direct style Publisher **Formal Deductive Logic** Robert Hahn,1998-01-01 The Discovery of Deduction Joelle Hodge,Aaron Larsen,Shelly Johnson,2010-03 Provides an introduction to formal deductive logic using Socratic dialogue and discussion **Basic Logic** Raymond J. MacCall,1961 *Basic Logic* Raymond Joseph McCall,1967 *Notes in Formal Deductive Logic* Raymond J. McCall, *Logic, Deductive and Inductive* Carveth Read,1914

Handbook of the Logic of Argument and Inference R.H. Johnson,H.J. Ohlbach,Dov M. Gabbay,John Woods,2002-09-11 The Handbook of the Logic of Argument and Inference is an authoritative reference work in a single volume designed for the attention of senior undergraduates graduate students and researchers in all the leading research areas concerned with the logic of practical argument and inference After an introductory chapter the role of standard logics is surveyed in two chapters These chapters can serve as a mini course for interested readers in deductive and inductive logic or as a refresher Then follow two chapters of criticism one the internal critique and the other the empirical critique The first deals with objections to standard logics as theories of argument and inference arising from the research programme in philosophical logic The second canvasses criticisms arising from work in cognitive and experimental psychology The next five chapters deal with developments in dialogue logic interrogative logic informal logic probability logic and artificial intelligence The last chapter surveys formal approaches to practical reasoning and anticipates possible future developments Taken as a whole the Handbook is a single volume indication of the present state of the logic of argument and inference at its conceptual and theoretical best Future editions will periodically incorporate significant new developments The Rise of Informal Logic Ralph H. Johnson,2014-07-15 We are pleased to release this digital edition of Ralph Johnson s The Rise of Informal Logic as Volume 2 in the series Windsor Studies in Argumentation This edition is a reprint of the previous Vale Press edition with some minor corrections We have decided to make this the second volume in the series because it is such a compelling account of the formation of informal logic as a discipline written by one of the founders of the field The book includes essential chapters on the history and development of informal logic Other chapters are key reflections on the theoretical issues raised by the attempt to understand informal argument Many of the papers were previously published in important journals A number of them were co authored with J Anthony Blair Three of them have appeared only in the present

book *Politics of Practical Reasoning* Ricca Edmondson, Karlheinz Hülser, 2012-10-04 This book treats practical and political reasoning as an active engagement with the world and other people it cannot be understood as exclusively cognitive and this is seen as a virtue rather than a deficiency Informal emotional characterological aesthetic and interactional aspects of thought can be constituents of reasonable arguing The work examines key capacities connected with argumentation in a variety of fields from professional and medical ethics to work organization and the practice of art Studies and Exercises in Formal Logic John Neville Keynes, 1887 *The Elements of Formal Logic* G. E. Hughes, D. G. Londey, 2019-11-04 Originally published in 1965 This is a textbook of modern deductive logic designed for beginners but leading further into the heart of the subject than most other books of the kind The fields covered are the Propositional Calculus the more elementary parts of the Predicate Calculus and Syllogistic Logic treated from a modern point of view In each of the systems discussed the main emphases are on Decision Procedures and Axiomatisation and the material is presented with as much formal rigour as is compatible with clarity of exposition The techniques used are not only described but given a theoretical justification Proofs of Consistency Completeness and Independence are set out in detail The fundamental characteristics of the various systems studies and their relations to each other are established by meta logical proofs which are used freely in all sections of the book Exercises are appended to most of the chapters and answers are provided **The Elements of Logic, Theoretical and Practical** James Hervey Hyslop, 1892 *The Philosophical Review* Jacob Gould Schurman, James Edwin Creighton, Frank Thilly, Gustavus Watts Cunningham, 1919 An international journal of general philosophy **The Elements of Logic** James Hervey Hyslop, 1892 **The Holistic Inspirations of Physics** Val Dusek, 1999 While many books have claimed parallels between modern physics and Eastern philosophy none have dealt with the historical influences of both Chinese traditional thought and non mechanistic holistic western thought on the philosophies of the scientists who developed electromagnetic field theory In *The Holistic Inspirations of Physics* R Valentine Dusek asks to what extent is classical field theory a product of organic and holistic philosophies and frameworks Electromagnetic theory has been greatly influenced by holistic worldviews Dusek posits and he highlights three alternative scientific systems that made the development of electromagnetic theory possible medieval Chinese science Western Renaissance occultism and the German romantic traditions He situates these alternative approaches in their social context and background and traces their connection with components of accepted physical science in relation to a number of social movements and philosophical theories Readers will learn of specific contributions made by these alternative traditions such as the Chinese inventing the compass and discovering the earth's magnetic field and magnetic declination Western alchemical ideas of active forces and occult influences contributed to Newton's theory of gravitation force as action at a distance rather as a result of purely mechanical collisions and contact action Dusek also describes the extent to which women's culture supplied often without credit the philosophical background ideas that were absorbed into mainstream field theory *A New Logic* Charles Arthur

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