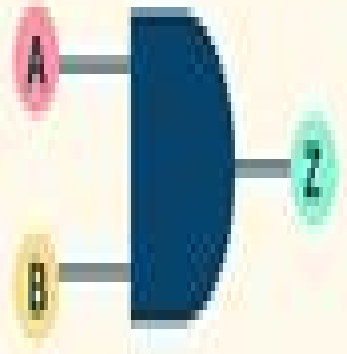
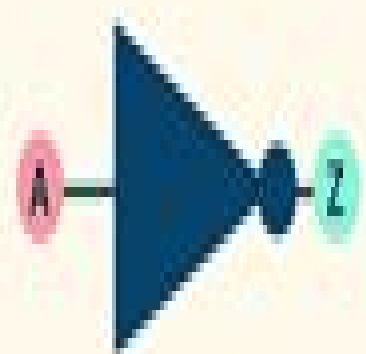


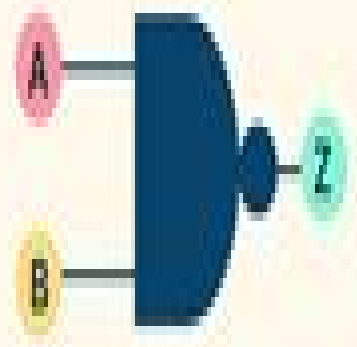
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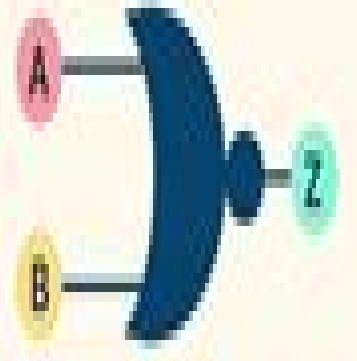
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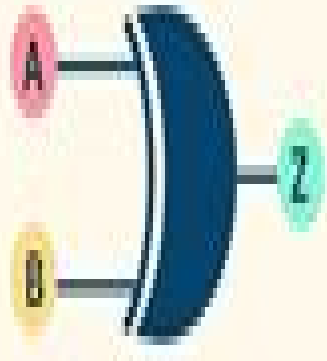
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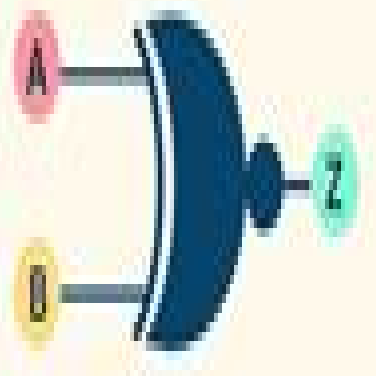
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Logic for Computer Scientists Uwe Schöning,2008-01-11 This book introduces the notions and methods of formal logic from a computer science standpoint covering propositional logic predicate logic and foundations of logic programming The classic text is replete with illustrative examples and exercises It presents applications and themes of computer science research such as resolution automated deduction and logic programming in a rigorous but readable way The style and scope of the work rounded out by the inclusion of exercises make this an excellent textbook for an advanced undergraduate course in logic for computer scientists Fundamentals of Computing I Allen B. Tucker,1994-02 **Computer Logic** John Y.

Hsu,2012-12-06 An understanding of modern computer logic incorporating core knowledge of number systems number conversions Boolean algebra memories and logic circuits is fundamental to further study of computer architectures system software and computer networks *Computer Logic Design Principles and Applications* introduces and describes the relevant concepts principles and applications of modern computer logic design The book is self contained with an introductory chapter that concisely covers the history of computing devices as well as number systems number conversions signed and unsigned integers external code and digital and digitizing concepts Dedicated chapters on Boolean algebra transistor circuits combinatorial logic circuits and sequential logic circuits round off the work The emphasis is on design and applications

Logic in Computer Science Michael Huth,Mark Ryan,2004-08-26 Recent years have seen the development of powerful tools for verifying hardware and software systems as companies worldwide realise the need for improved means of validating their products There is increasing demand for training in basic methods in formal reasoning so that students can gain proficiency in logic based verification methods The second edition of this successful textbook addresses both those requirements by continuing to provide a clear introduction to formal reasoning which is both relevant to the needs of modern computer science and rigorous enough for practical application Improvements to the first edition have been made throughout with extra and expanded sections on SAT solvers existential universal second order logic micro models programming by contract and total correctness The coverage of model checking has been substantially updated Further exercises have been added Internet support for the book includes worked solutions for all exercises for teachers and model solutions to some exercises for students *Computing with Logic* David Maier,David S. Warren,1988 Computing with logic Maier D Warren D

S **Artificial Intelligence and Computing Logic** Cyrus F. Nourani,2021-12-22 Focusing on the cutting edge applications of AI cognitive computing from neuromorphic to quantum cognition as applied to AI business analytics this new volume explores AI s importance in managing cognitive processes along with ontological modeling concepts for venturing into new business frontiers The volume presents a selection of significant new accomplishments in the areas of AI cognitive computing ranging from neurocognition perception and decision making in the human brain combining neurocognitive techniques and effective computing to basic facial recognition computing models Topics include Agent neurocomputing

techniques for facial expression recognition Computing haptic motion and ontology epistemic Characterizations of morph schemas for visual analytics Learning and perceptive computing Functional and structural neuroimaging modeling Observed links between facial recognition and affective emotional processes Interaction of cognitive and emotional processes during social decision making Neurocognitive processing of emotional facial expressions in individuals Neurocognitive affective system for emotive robot androids Virtual reality based affect adaptive neuromorphic computing Executive surveys indicate that cognitive adoption is very important in business strategy for success and to remain competitive Employing cognitive based processes provides the way to get the right information in the right hands at the right time which is the key to winning in the digital era and to driving business value that emphasizes competitive differentiation Several chapters of the volume address the goal of using cognitive technology to improve search capabilities to provide personalized customer service in business and in health and wellness and to create better workflow management Key features Looks at the newest frontiers on very popular AI and analytics topics Discusses new techniques for visual analytics and data filtering Shows how AI and cognitive science merges with quantum neurocognitive computing Presents ontology models with ontology preservation data filtering techniques Provides a cross transposition on AI and digitizations for business model innovations Artificial Intelligence and Computing Logic Cognitive Technology for AI Business Analytics is a valuable resource that informs businesses and other enterprises the value of artificial intelligence and computing logic applications Logic for Computer Science Steve Reeves, Michael Clarke, 1990 An understanding of logic is essential to computer science This book provides a highly accessible account of the logical basis required for reasoning about computer programs and applying logic in fields like artificial intelligence The text contains extended examples algorithms and programs written in Standard ML and Prolog No prior knowledge of either language is required The book contains a clear account of classical first order logic one of the basic tools for program verification as well as an introductory survey of modal and temporal logics and possible world semantics An introduction to intuitionistic logic as a basis for an important style of program specification is also featured in the book *From Logic to Computing* Robert P. McArthur, 1991 This book forges a bridge between logical principles in their application to reasoning in ordinary language on one hand and logical principles as fundamental to the development and operation of computers on the other Mathematical Logic For Computer Science Zhongwan Lu, 1989-07-01 This book describes the aspects of mathematical logic related to computer sciences The materials adopted in this book are intended to attend to both the peculiarities of logical systems and the requirements of computer science *Mathematical Logic For Computer Science (2nd Edition)* Zhongwan Lu, 1998-08-22 Mathematical logic is essentially related to computer science This book describes the aspects of mathematical logic that are closely related to each other including classical logic constructive logic and modal logic This book is intended to attend to both the peculiarities of logical systems and the requirements of computer science In this edition the revisions essentially involve rewriting the proofs increasing the explanations and

adopting new terms and notations

Understanding Programming and Logic Matthew Aniss, 2015 Explores the basics of computer programming explaining how programming is based on logical reasoning and the answers to simple questions what can be done with computer programming and how to use control languages

The Logic Design of Transistor Digital Computers Gerald A. Maley, John Earle, 1963

Logic in Computer Science, 1999

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From Logic to Logic Programming Kees Doets, 1994 This mathematically oriented introduction to the theory of logic programming presents a systematic exposition of the resolution method for propositional first order and Horn clause logics together with an analysis of the semantic aspects of the method It is through the inference rule of resolution that both proofs and computations can be manipulated on computers and this book contains elegant versions and proofs of the fundamental theorems and lemmas in the proof theory of logic programming Advanced topics such as recursive complexity and negation as failure and its semantics are covered and streamlined setups for SLD and SLDNF resolution are described No other book treats this material in such detail and with such sophistication Doets provides a novel approach to resolution that is applied to the first order case and the case of positive logic programs In contrast to the usual approach the concept of a resolvent is defined nonconstructively without recourse to the concept of unification allowing the soundness and completeness proofs to be carried out in a more economic way Other new material includes computability results dealing with analytical hierarchy results on infinite derivations and an exposition on general logic programs using 3 valued logic

Handbook of Logic in Artificial Intelligence and Logic Programming: Volume 5: Logic Programming Dov M. Gabbay, C. J. Hogger, J. A. Robinson, 1998-01-08 The Handbook of Logic in Artificial Intelligence and Logic Programming is a multi volume work covering all major areas of the application of logic to artificial intelligence and logic programming The authors are chosen on an international basis and are leaders in the fields covered Volume 5 is the last in this well regarded series Logic is now widely recognized as one of the foundational disciplines of computing It has found applications in virtually all aspects of the subject from software and hardware engineering to programming languages and artificial intelligence In response to the growing need for an in depth survey of these applications the Handbook of Logic in Artificial Intelligence and its companion the Handbook of Logic in Computer Science have been created The Handbooks are a combination of authoritative exposition comprehensive survey and fundamental research exploring the underlying themes in the various areas Some mathematical background is assumed and much of the material will be of interest to logicians and mathematicians Volume 5 focuses particularly on logic programming The chapters which in many cases are of monograph length and scope emphasize possible unifying themes

Fundamentals of Computing I Allen B. Tucker, 1992

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