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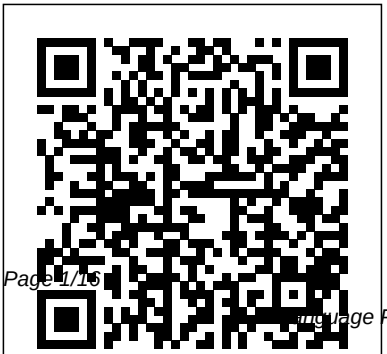

Information Modelling and Knowledge Bases XXVI CRC Press

This leading text for symbolic or formal logic courses presents all techniques and concepts with clear, comprehensive explanations, and includes a wealth of carefully constructed examples. Its flexible organization (with all chapters complete and self-contained) allows instructors the freedom to cover the topics they want in the order they choose.

The Logic Book Narr Francke Attempto Verlag

Rev. ed. of: Language, proof, and logic / Jon Barwise & John Etchemendy.

Book of Proof Trafford Publishing

This book is an introduction to the language and standard proof methods of mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of college to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity.

Logic as a Tool Open SUNY Textbooks

This volume constitutes the proceedings of the First International Conference on Constraints in Computational Logics, CCL '94, held in Munich, Germany in September 1994. Besides abstracts or full papers of the 5 invited talks by senior researchers, the book contains revised versions of the 21 accepted research papers selected from a total of 52 submissions. The volume assembles high quality original papers covering major theoretical and practical issues of combining and extending programming paradigms, preferably by using constraints. The topics

covered include symbolic constraints, set constraints, numerical constraints, multi-paradigm programming, combined calculi, constraints in rewriting, deduction, symbolic computations, and working systems.

Logic Springer Science & Business Media

The paper shows how a question-answering system can use first-order logic as its language and an automatic theorem prover, based upon the resolution inference principle, as its deductive mechanism. The resolution proof procedure is extended to a constructive proof procedure. An answer construction algorithm is given whereby the system is able not only to produce yes or no answers but also to find or construct an object satisfying a specified condition. A working computer program, QA3, based on these ideas, is described. Methods are presented for solving state transformation problems. In addition to question-answering, the program can do automatic programming, control and problem solving for a simple robot, pattern recognition, and puzzles. (Author).

Handbook of Logic in Artificial Intelligence and Logic Programming: Volume 5: Logic Programming State University of New York Oer Services

Logic for Philosophy is an introduction to logic for students of contemporary philosophy. It is suitable both for advanced

undergraduates and for beginning graduate students in philosophy. It covers (i) basic approaches to logic, including proof theory and especially model theory, (ii) extensions of standard logic that are important in philosophy, and (iii) some elementary philosophy of logic. It emphasizes breadth rather than depth. For example, it discusses modal logic and counterfactuals, but does not prove the central metalogical results for predicate logic (completeness, undecidability, etc.) Its goal is to introduce students to the logic they need to know in order to read contemporary philosophical work. It is very user-friendly for students without an extensive background in mathematics. In short, this book gives you the understanding of logic that you need to do philosophy.

Discrete Mathematics

Springer

Question answering (QA) has become one of the fastest growing topics in computational linguistics and information access. To advance research in the area of dialogue-based question answering, we propose a combination of methods from different scientific fields (i.e., Information Retrieval, Dialogue Systems, Semantic Web, and Machine Learning). This book sheds light on adaptable dialogue-based question answering. We demonstrate the technical and computational feasibility of the proposed ideas, the

introspective methods in particular, by beginning with an extensive introduction to the dialogical problem domain which motivates the technical implementation. The ideas have been carried out in a mature natural language processing (NLP) system, the SmartWeb dialogue system, which was developed between 2004 and 2007 by partners from academia and industry. We have attempted to make this book a self-containing text and provide an extra section on the interdisciplinary scientific background. The target audience for this book comprises of researchers and students interested in the application potential of semantic technologies for difficult AI tasks such as working dialogue and QA systems.

A First Course in Logic

Elsevier

This new Springer volume provides a comprehensive and detailed look at current approaches to automated question answering. The level of presentation is suitable for newcomers to the field as well as for professionals wishing to study this area and/or to build practical QA systems. The book can serve as a "how-to" handbook for IT practitioners and system developers. It can also be used to teach graduate courses in Computer Science, Information Science and related disciplines.

Advances in Open Domain Question Answering IOS Press
Provides an essential introduction to classical logic.
Handbook of Logic and Language McGraw-Hill Humanities/Social Sciences/Languages
This book constitutes the proceedings of the 14th German Conference on Multiagent System Technologies, MATES 2016, held in Klagenfurt, Austria, in September 2016. 12 long papers and 5 short papers were carefully reviewed and selected from 28 submissions. MATES 2016 conference talks covered a broad area of topics of interest including MAS engineering and modeling, issues of human-agent interaction, collaboration and coordination, agent-based adaptation and optimization, and applications of MAS, in particular in the smart energy domain.
ALPUK92 IGI Global
"Forall x is an introduction to sentential logic and first-order predicate logic with identity, logical systems that significantly influenced twentieth-century analytic philosophy. After working through the material in this book, a student should be able to understand most quantified expressions that arise in their philosophical reading. This books treats symbolization, formal semantics, and proof theory for each language. The discussion of formal semantics is more direct than in many introductory texts. Although forall x does not contain proofs of soundness and completeness, it lays the groundwork for understanding why these

are things that need to be proven. Throughout the book, I have tried to highlight the choices involved in developing sentential and predicate logic. Students should realize that these two are not the only possible formal languages. In translating to a formal language, we simplify and profit in clarity. The simplification comes at a cost, and different formal languages are suited to translating different parts of natural language. The book is designed to provide a semester's worth of material for an introductory college course. It would be possible to use the book only for sentential logic, by skipping chapters 4-5 and parts of chapter 6"--Open Textbook Library.

Constraints in Computational Logics

Clarendon Press

Diagrams is an international and interdisciplinary conference series, covering all aspects of research on the theory and application of diagrams. Recent technological advances have enabled the large-scale adoption of d- grams in a diverse range of areas. Increasingly sophisticated visual represen- tions are emerging and, to enable e?ective communication, insight is required into how diagrams are used and when they are appropriate for use. The per- sive, everyday use of diagrams for communicating information and ideas serves to illustrate the importance of providing a sound understanding of the role that diagrams can, and do, play. Research in the ?eld of diagrams aims to improve our understanding of the role of diagrams, sketches and other visualizations in communication, computation, cognition, creative thought, and problem solving. These

concerns have triggered a surge of interest in the study of diagrams. The study of diagrammatic communication as a whole must be pursued as an interdisciplinary endeavour.Diagrams 2008 was the ?fth event in this conf- ence series, which was launched in Edinburghduring September 2000.Diagrams attracts a large number of researchers from virtually all related ?elds, placing the conference as a major international event in the area. Diagrams is the only conference that provides a united forum for all areas that are concerned with the study of diagrams: for example, architecture, - ti?cial intelligence, cartography, cognitive science, computer science, education, graphicdesign,hi storyofscience,human-comp uterinteraction,linguistics,lo gic, mathematics,philosophy ,psychology,andsoftwaremo delling.Weseeissuesfrom all of these ?elds discussed in the papers collected in the present volume.

A Friendly Introduction to Mathematical Logic OUP Oxford

Questions are everywhere and the ubiquitous activities of asking and answering, as most human activities, are susceptible to failure - at least from time to time. This volume offers several current approaches to the systematic study of questions and the surrounding activities and works toward supporting and improving these activities. The contributors formulate general problems for a formal treatment of questions, investigate specific kinds of questions, compare different frameworks with regard to how they regulate the activities of asking and answering of questions, and situate these activities in a wider framework of cognitive/epistemic

discourse. From the perspectives of logic, linguistics, epistemology, and philosophy of language emerges a report on the state of the art of the theory of questions.

Elsevier

The new edition of a comprehensive and rigorous but concise introduction to symbolic logic. Logic Primer offers a comprehensive and rigorous introduction to symbolic logic, providing concise definitions of key concepts, illustrative examples, and exercises. After presenting the definitions of validity and soundness, the book goes on to introduce a formal language, proof theory, and formal semantics for sentential logic (chapters 1 – 3) and for first-order predicate logic (chapters 4 – 6) with identity (chapter 7). For this third edition, the material has been reorganized from four chapters into seven, increasing the modularity of the text and enabling teachers to choose alternative paths through the book. New exercises have been added, and all exercises are now arranged to support students moving from easier to harder problems. Its spare and elegant treatment makes Logic Primer unique among textbooks. It presents the material with minimal chattiness, allowing students to proceed more directly from topic to topic and leaving instructors free to cover the subject matter in the way that best suits their students. The book includes more than thirty exercise sets, with answers to many of

them provided in an appendix. The book ' s website allows students to enter and check proofs, truth tables, and other exercises interactively.

Mathematical Reasoning IOS Press

The textbook/software package covers first-order language in a method appropriate for first and second courses in logic. An on-line grading services instantly grades solutions to hundred of computer exercises. It is designed to be used by philosophy instructors teaching a logic course to undergraduates in philosophy, computer science, mathematics, and linguistics. Introductory material is presented in a systematic and accessible fashion. Advanced chapters include proofs of soundness and completeness for propositional and predicate logic, as well as an accessible sketch of Godel's first incompleteness theorem. The book is appropriate for a wide range of courses, from first logic courses for undergraduates (philosophy, mathematics, and computer science) to a first graduate logic course.

Logic Primer, third edition Rowman & Littlefield

Edited in collaboration with FoLLI, the Association of Logic,

Language and Information this book constitutes the refereed proceedings of the 23rd Workshop on Logic, Language, Information and Communication, WoLLIC 2016, held in Puebla, Mexico, in August 2016.The 23 contributed papers, presented together with 9 invited lectures and tutorials, were carefully reviewed and selected from 33 submissions. The focus of the workshop is to provide a forum on inter-disciplinary research involving formal logic, computing and programming theory, and natural language and reasoning.

Diagrammatic Representation and Inference Cambridge University Press Since its conception nearly 20 years ago, logic programming has been developed to the point where it now plays an important role in areas such as database theory, artificial intelligence and software engineering. There are, however, still many outstanding research issues which need to be addressed, and the UK branch of the Association for Logic Programming was set up to provide a forum where the flourishing research community could discuss important issues which were often by- passed at the larger international conferences. This

volume contains the invited papers, refereed papers and tutorials presented at the 4th ALPUK Conference, which aimed to broaden the frontiers of logic programming by encouraging interaction between it and other related disciplines. The papers cover a variety of technical areas, including concurrent logic languages and their semantics, applications of logic languages to other (non-classical) logical systems, modules, types and error-handling, and the distributed execution of Prolog programs. The wide scope of the papers refelects the breadth of interest in this important area of computer science. ALPUK 92 provides a comprehensive overview of current progress being made in logic programming research. It will be of interest to all workers in the field, especially researchers, postgraduate students, and research and development workers in industry.

Logic for Philosophy

Oxford University Press

Written in a clear, precise and user-friendly style, Logic as a Tool: A Guide to Formal Logical Reasoning is intended for undergraduates in both mathematics and computer science, and will guide them to learn, understand and master the use of classical logic as a tool for doing correct reasoning. It

offers a systematic and precise exposition of classical logic with many examples and exercises, and only the necessary minimum of theory. The book explains the grammar, semantics and use of classical logical languages and teaches the reader how grasp the meaning and translate them to and from natural language. It illustrates with extensive examples the use of the most popular deductive systems -- axiomatic systems, semantic tableaux, natural deduction, and resolution -- for formalising and automating logical reasoning both on propositional and on first-order level, and provides the reader with technical skills needed for practical derivations in them. Systematic guidelines are offered on how to perform logically correct and well-structured reasoning using these deductive systems and the reasoning techniques that they employ.

• Concise and systematic exposition, with semi-formal but rigorous treatment of the minimum necessary theory, amply illustrated with examples • Emphasis both on conceptual understanding and on developing practical skills • Solid and balanced coverage of syntactic, semantic, and deductive aspects of logic • Includes extensive sets of exercises, many of them provided with solutions or answers • Supplemented by a website including detailed slides, additional exercises and solutions For more information

browse the book's website at: https://logicasatool.wordpress.com

Handbook of Research on Emerging Rule-Based Languages and Technologies: Open Solutions and Approaches

Createspace Independent Publishing Platform

Mathematical Reasoning: Writing and Proof is a text for the ?rst college mathematics course that introduces students to the processes of constructing and writing proofs and focuses on the formal development of mathematics. The primary goals of the text are to help students: Develop logical thinking skills and to develop the ability to think more abstractly in a proof oriented setting; develop the ability to construct and write mathematical proofs using standard methods of mathematical proof including direct proofs, proof by contradiction, mathematical induction, case analysis, and counterexamples; develop the ability to read and understand written mathematical proofs; develop talents for creative thinking and problem solving; improve their quality of communication in mathematics. This includes improving writing techniques, reading comprehension, and oral communication in mathematics; better understand the nature of mathematics and its language. Another important goal of this text is to provide students with material that will be needed for their further study of mathematics. Important features of the book include: Emphasis on writing in mathematics; instruction in the process of constructing proofs; emphasis on active learning.There are no changes in content between

Version 2.0 and previous versions of the book. The only change is that the appendix with answers and hints for selected exercises now contains solutions and hints for more exercises.

Language, Proof and Logic John Wiley & Sons

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate!

activities throughout theoks.org text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbo