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Educational engineering equipment manufacturer and importer Amtec Techniquip has developed new products to assist in local distance learning at a time when learners cannot physically access their ...

Manufacturer provides solutions for distance learning
This is a first course in propositional modal logic, suitable for mathematicians, computer scientists and philosophers ... of the book is the many exercises and an extensive set of solutions is ...

First Steps in Modal Logic
Inspired by the biological function of neurons but engineered on a digital logic process, this event-based spiking ... Efficient and Versatile Computer Vision, Image, Voice, Natural Language, Neural ...

Processor Solutions IP Core
An upgrade is coming to the digital classroom. Google Workspace and kids just got smarter thanks to two new educational solutions added on the platform from TBox, an educational technology company ...

TBox's new edtech solutions help schools integrate a technology curriculum
you can try our recommended solutions below in no particular order and see if that helps to resolve the issue. Restart computer Run the Blue Screen Online Troubleshooter Uninstall problematic ...

Fix 0xc0000142 Blue Screen error on Windows 10
US-based Zoom Video Communications acquires kites GmbH, a spin-off from Karlsruhe Institute of Technology (KIT) dedicated to developing real-time machine translation (MT) solutions. This was announced ...

Language technologies: Zoom acquires KIT's spin-off kites
If you analyse a problem and plan out the solutions ... might use one type of computer language or many. They use computational thinking all the time. Programmers are logical thinkers and problem ...

What is computer science?
Amazon Web Services continues cloud providers' industry-specific push with the release of Amazon HealthLake under its new 'AWS for Health' banner ...

Amazon HealthLake Is GA Under New 'AWS for Health' Banner
According to an advisory published this week by Germany's CERT@VDE, which coordinates cybersecurity issues related to industrial automation, WAGO's PFC100 and PFC200 PLCs, its Edge Controller product, ...

Vulnerabilities in WAGO Devices Expose Industrial Firms to Remote Attacks
Atmel will use Virage Logic's HD embedded memories to gain key advantages in area and performance for products aimed at such growth markets as telecom, computer peripherals ... next-generation ...

Atmel and Virage Logic grow partnership for 0.13-micron SoC Designs
Data loss is a condition in which the information stored on a computer or storage medium gets destroyed due to physical or logical damage ... name that offers solutions for multiple platforms.

Tenorshare 4DDiG: Quick and Reliable Data Recovery Software for Mac and Windows
June 8, 2021 /PRNewswire/ -- OnLogic (www.onlogic.com), global manufacturer of industrial and rugged hardware solutions ... OnLogic is a global industrial computer manufacturer who designs ...

OnLogic Launches Four Display, AMD Powered ThinManager® Ready Thin Client
3xLOGIC, Inc., a globally renowned provider of integrated, intelligent security solutions, is introducing its Gunshot ... to provide a powerful and easy-to-use platform, complete with computer-vision ...

3xLOGIC announces the release of its Gunshot Detection Solution to counter active shooter incidents
Despite the significant performance benefits, cryptographic chips can be compromised by the adversaries via monitoring their power-consumption, tampering their logic or placing the ... physical ...

CAREER: Investigating the Impact of Device Aging on the Security of Cryptographic Chips
3xLOGIC, Inc., a provider of integrated, intelligent security solutions, is hosting two dealer-focused events ... really to provide a powerful and easy-to-use platform, complete with computer-vision ...

3xLOGIC to host dealer-focused virtual webinar to provide customers with product demonstration
For that reason, the altimeters are devices that are routinely integrated for UAS manufacturers with UAV Navigation's GNC solutions. Unlike other flight ... runways and that is because of the advanced ...

UAV Navigation Autopilots Are Now Compatible with Ainstein US-D1 Radar Altimeter
Though this move by utilities is relatively new, it is glaringly logical. As the main source ... for energy-efficiency solutions. Likely due to limited insight into broader customer segments ...

No Customer Left Behind: Ensuring Energy Equity With Utility Mobile Marketing
Partnering together in smart city and smart campus initiatives is the logical next step. In fact, colleges are an ideal staging ground for smart city solutions ... building science, computer science ...

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.

Introduction to Computing is a comprehensive text designed for the CS0 (Intro to CS) course at the college level. It may also be used as a primary text for the Advanced Placement Computer Science course at the high school level.

Digital Design and Computer Architecture: ARM Edition covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Combining an engaging and humorous writing style with an updated and hands-on approach to digital design, this book takes the reader from the fundamentals of digital logic to the actual design of an ARM processor. By the end of this book, readers will be able to build their own microprocessor and will have a top-to-bottom understanding of how it works. Beginning with digital logic gates and progressing to the design of combinational and sequential circuits, this book uses these fundamental building blocks as the basis for designing an ARM processor. SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD-based circuit design. The companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. This book will be a valuable resource for students taking a course that combines digital logic and computer architecture or students taking a two-quarter sequence in digital logic and computer organization/architecture. Covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Features side-by-side examples of the two most prominent Hardware Description Languages (HDLs)—SystemVerilog and VHDL—which illustrate and compare the ways each can be used in the design of digital systems. Includes examples throughout the text that enhance the reader's understanding and retention of key concepts and techniques. The Companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. The Companion website also includes appendices covering practical digital design issues and C programming as well as links to CAD tools, lecture slides, laboratory projects, and solutions to exercises.

Language acquisition is a human endeavor par excellence. As children, all human beings learn to understand and speak at least one language: their mother tongue. It is a process that seems to take place without any obvious effort. Second language learning, particularly among adults, causes more difficulty. The purpose of this series is to compile a collection of high-quality monographs on language acquisition. The series serves the needs of everyone who wants to know more about the problem of language acquisition in general and/or about language acquisition in specific contexts.

An introduction to applying predicate logic to testing and verification of software and digital circuits that focuses on applications rather than theory. Computer scientists use logic for testing and verification of software and digital circuits, but many computer science students study logic only in the context of traditional mathematics, encountering the subject in a few lectures and a handful of problem sets in a discrete math course. This book offers a more substantive and rigorous approach to logic that focuses on applications in computer science. Topics covered include predicate logic, equation-based software, automated testing and theorem proving, and large-scale computation. Formalism is emphasized, and the book employs three formal notations: traditional algebraic formulas of propositional and predicate logic; digital circuit diagrams; and the widely used partially automated theorem prover, ACL2, which provides an accessible introduction to mechanized formalism. For readers who want to see formalization in action, the text presents examples using Proof Pad, a lightweight ACL2 environment. Readers will not become ALC2 experts, but will learn how mechanized logic can benefit software and hardware engineers. In addition, 180 exercises, some of them extremely challenging, offer opportunities for problem solving. There are no prerequisites beyond high school algebra. Programming experience is not required to understand the book's equation-based approach. The book can be used in undergraduate courses in logic for computer science and introduction to computer science and in math courses for computer science students.

This easy-to-understand textbook introduces the mathematical language and problem-solving tools essential to anyone wishing to enter the world of computer and information sciences. Specifically designed for the student who is intimidated by mathematics, the book offers a concise treatment in an engaging style. The thoroughly revised third edition features a new chapter on relevance-sensitivity in logical reasoning and many additional explanations on points that students find puzzling, including the rationale for various shorthand ways of speaking and "abuses of language" that are convenient but can give rise to misunderstandings. Solutions are now also provided for all exercises. Topics and features: presents an intuitive approach, emphasizing how finite mathematics supplies a valuable language for thinking about computation; discusses sets and the mathematical objects built with them, such as relations and functions, as well as recursion and induction; introduces core topics of mathematics, including combinatorics and finite probability, along with the structures known as trees; examines propositional and quantificational logic, how to build complex proofs from simple ones, and how to ensure relevance in logic; addresses questions that students find puzzling but may have difficulty articulating, through entertaining conversations between Alice and the Mad Hatter; provides an extensive set of solved exercises throughout the text. This clearly-written textbook offers invaluable guidance to students beginning an undergraduate degree in computer science. The coverage is also suitable for courses on formal methods offered to those studying mathematics, philosophy, linguistics, economics, and political science. Assuming only minimal mathematical background, it is ideal for both the classroom and independent study.

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