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COMPUTER ARCHITECTURE

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Microprocessor Architecture Jean-Loup Baer,2009-12-07 This book gives a comprehensive description of the architecture of microprocessors from simple in order short pipeline designs to out of order superscalars It discusses topics such as The policies and mechanisms needed for out of order processing such as register renaming reservation stations and reorder buffers Optimizations for high performance such as branch predictors instruction scheduling and load store speculations Design choices and enhancements to tolerate latency in the cache hierarchy of single and multiple processors State of the art multithreading and multiprocessing emphasizing single chip implementations Topics are presented as conceptual ideas with metrics to assess the performance impact if appropriate and examples of realization The emphasis is on how things work at a black box and algorithmic level The author also provides sufficient detail at the register transfer level so that readers can appreciate how design features enhance performance as well as complexity

Optimization of Power Flow Computation Methods Christoph Kattmann,2022-09-13 Power flow computations are a cornerstone of many simulations regarding the electric grid This thesis evaluates the landscape of power flow computation methods with a focus on practical computational performance in large scale simulations as they occur in modern distribution grid planning The investigation involves various model assumptions different algorithms implementation details and unconventional computational optimization methods As a result the implementations devised in this thesis are up to a thousand times faster for large scale grid simulations than established solutions

Information Security Management Handbook, Fifth Edition Harold F. Tipton,Micki Krause,2003-12-30

Hardware Security Swarup Bhunia,Mark M. Tehranipoor,2018-10-30 Hardware Security A Hands On Learning Approach provides a broad comprehensive and practical overview of hardware security that encompasses all levels of the electronic hardware infrastructure It covers basic concepts like advanced attack techniques and countermeasures that are illustrated through theory case studies and well designed hands on laboratory exercises for each key concept The book is ideal as a textbook for upper level undergraduate students studying computer engineering computer science electrical engineering and biomedical engineering but is also a handy reference for graduate students researchers and industry professionals For academic courses the book contains a robust suite of teaching ancillaries Users will be able to access schematic layout and design files for a printed circuit board for hardware hacking i e the HaHa board that can be used by instructors to fabricate boards a suite of videos that demonstrate different hardware vulnerabilities hardware attacks and countermeasures and a detailed description and user manual for companion materials Provides a thorough overview of computer hardware including the fundamentals of computer systems and the implications of security risks Includes discussion of the liability safety and privacy implications of hardware and software security and interaction Gives insights on a wide range of security trust issues and emerging attacks

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