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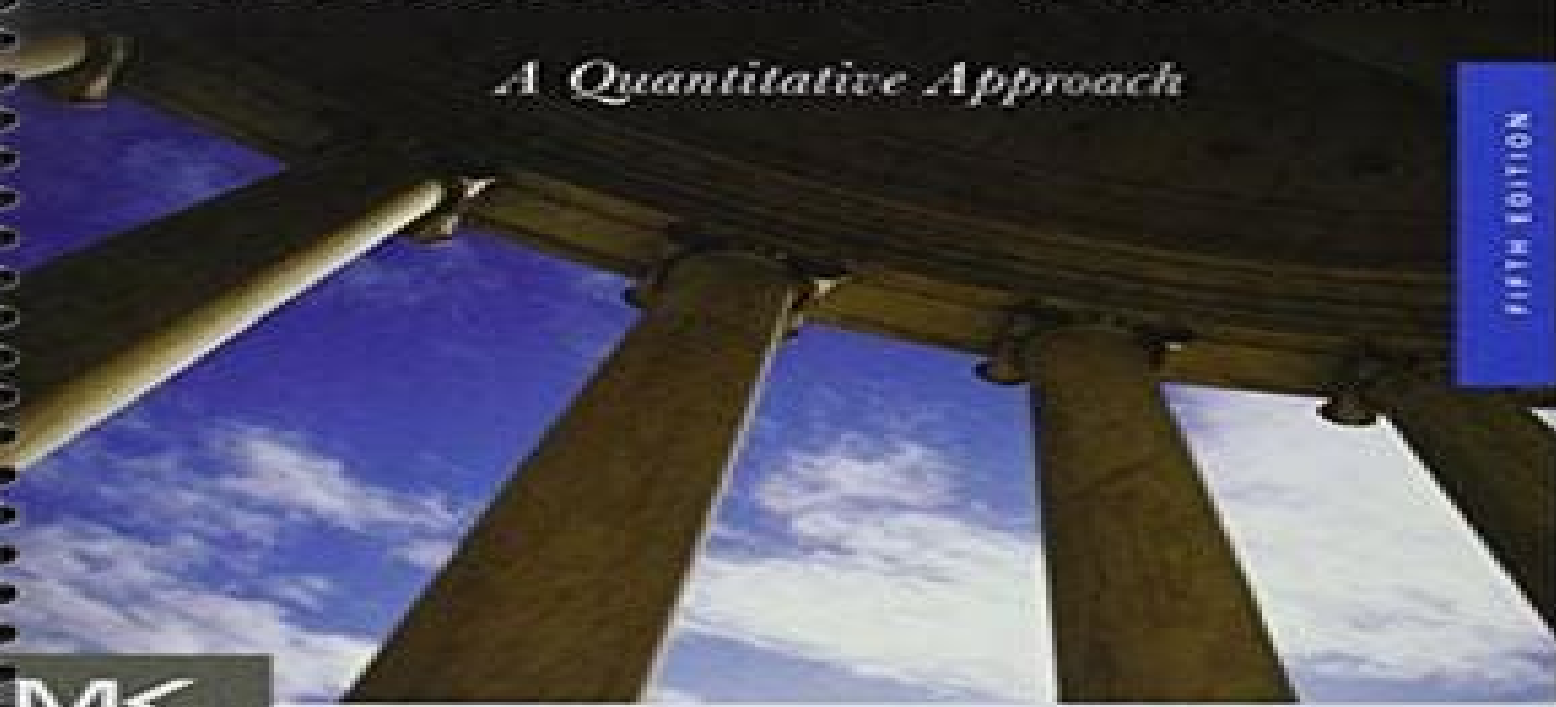
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Mobile and Handheld Computing Solutions for Organizations and End-Users Hu, Wen-Chen,2013-01-31 Mobile and Handheld Computing Solutions for Organizations and End Users discusses a broad range of topics in order to advance handheld knowledge and apply the proposed methods to real world issues for organizations and end users This book brings together researchers and practitioners involved with mobile and handheld computing solutions useful for IT students researchers and scholars

Ubiquitous Communications and Network Computing Navin Kumar,M. Vinodhini,Ranga Rao Venkatesha Prasad,2021-07-05 This book constitutes the refereed proceedings of the 4th International Conference on Ubiquitous Communications and Network Computing UBICNET 2021 held in March 2021 Due to COVID 19 pandemic the conference was held virtually The 17 full papers were selected from 59 submissions and are basically arranged in different sessions on 5G networks millimeter wave communication systems and emerging applications quantum communication IoT and emerging applications data analytics and cloud computing artificial neural network machine learning and emerging applications

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

Optimizing HPC Applications with Intel Cluster Tools Alexander Supalov,Andrey Semin,Christopher Dahnken,Michael Klemm,2014-10-09 Optimizing HPC Applications with Intel Cluster Tools takes the reader on a tour of the fast growing area of high performance computing and the optimization of hybrid programs These programs typically combine distributed memory and shared memory programming models and use the Message Passing Interface MPI and OpenMP for multi threading to achieve the ultimate goal of high performance at low power consumption on enterprise class workstations and compute clusters The book focuses on optimization for clusters consisting of the Intel Xeon processor but the optimization methodologies also apply to the Intel Xeon Phi coprocessor and heterogeneous clusters mixing both architectures Besides the tutorial and reference content the authors address and refute many myths and misconceptions surrounding the topic The text is augmented and enriched by descriptions of real life situations

VLSI Design and Test for Systems Dependability Shojiro Asai,2018-07-20 This book discusses the new roles that the VLSI very large scale integration of semiconductor circuits is taking for the safe

secure and dependable design and operation of electronic systems The book consists of three parts Part I as a general introduction to this vital topic describes how electronic systems are designed and tested with particular emphasis on dependability engineering where the simultaneous assessment of the detrimental outcome of failures and cost of their containment is made This section also describes the related research project Dependable VLSI Systems in which the editor and authors of the book were involved for 8 years Part II addresses various threats to the dependability of VLSIs as key systems components including time dependent degradations variations in device characteristics ionizing radiation electromagnetic interference design errors and tampering with discussion of technologies to counter those threats Part III elaborates on the design and test technologies for dependability in such applications as control of robots and vehicles data processing and storage in a cloud environment and heterogeneous wireless telecommunications This book is intended to be used as a reference for engineers who work on the design and testing of VLSI systems with particular attention to dependability It can be used as a textbook in graduate courses as well Readers interested in dependable systems from social and industrial economic perspectives will also benefit from the discussions in this book

Logic Gates, Circuits, Processors, Compilers and Computers Jan Friso Groote, Rolf Morel, Julien Schmaltz, Adam Watkins, 2021-08-18 This undergraduate textbook first introduces basic electronic circuitry before explaining more advanced elements such as the Arithmetic Logic Unit sequential circuits and finally microprocessors In keeping with this integrated and graduated approach the authors then explain the relationship to first assembly programming then higher level languages and finally computer organisation Authors use the Raspberry Pi and ARM microprocessors for their explanations The material has been extensively class tested at TU Eindhoven by an experienced team of lecturers and researchers This is a modern holistic treatment of well established topics valuable for undergraduate students of computer science and electronics engineering and for self study The authors use the Raspberry Pi and ARM microprocessors for their explanations

Parallel Programming Thomas Rauber, Gudula Runger, 2023-04-04 This textbook covers the new development in processor architecture and parallel hardware It provides detailed descriptions of parallel programming techniques that are necessary for developing efficient programs for multicore processors as well as for parallel cluster systems and supercomputers The book is structured in three main parts covering all areas of parallel computing the architecture of parallel systems parallel programming models and environments and the implementation of efficient application algorithms The emphasis lies on parallel programming techniques needed for different architectures In particular this third edition includes an extended update of the chapter on computer architecture and performance analysis taking new developments such as the aspect of energy consumption into consideration The description of OpenMP has been extended and now also captures the task concept of OpenMP The chapter on message passing programming has been extended and updated to include new features of MPI such as extended reduction operations and non blocking collective communication operations The chapter on GPU

programming also has been updated All other chapters also have been revised carefully The main goal of this book is to present parallel programming techniques that can be used in many situations for many application areas and to enable the reader to develop correct and efficient parallel programs Many example programs and exercises are provided to support this goal and to show how the techniques can be applied to further applications The book can be used as a textbook for students as well as a reference book for professionals The material of the book has been used for courses in parallel programming at different universities for many years *McGraw-Hill Concise Encyclopedia of Engineering* McGraw Hill,2005-06-15

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