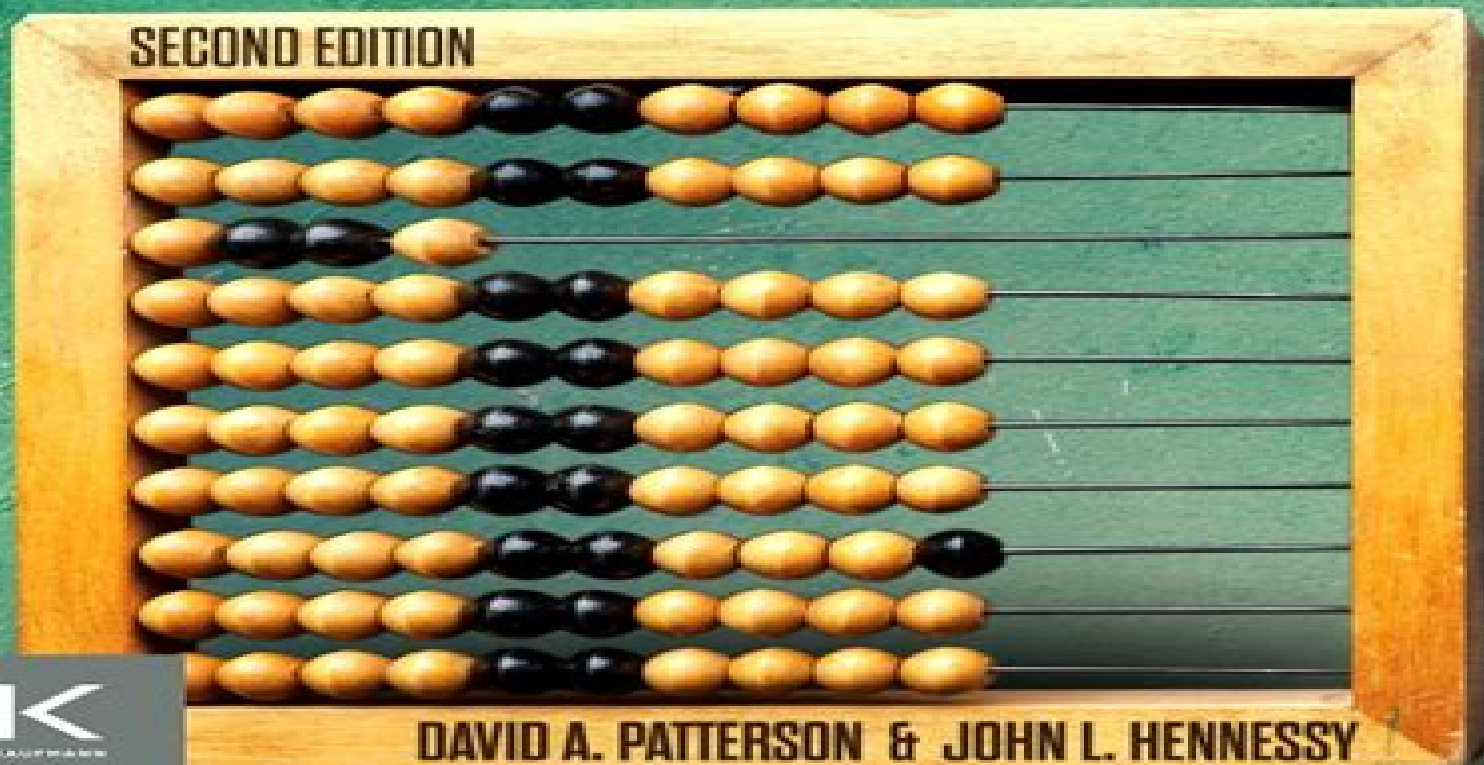


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Computer Systems Ata Elahi, 2022-03-16 This updated textbook covers digital design fundamentals of computer architecture and ARM assembly language The book starts by introducing computer abstraction basic number systems character coding basic knowledge in digital design and components of a computer The book goes on to discuss information representation in computing Boolean algebra and logic gates and sequential logic The book also presents introduction to computer architecture Cache mapping methods and virtual memory The author also covers ARM architecture ARM instructions ARM assembly language using Keil development tools and bitwise control structure using C and ARM assembly language The book includes a set of laboratory experiments related to digital design using Logisim software and ARM assembly language programming using Keil development tools In addition each chapter features objectives summaries key terms review questions and problems

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

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.

Computer Organization, Design, and Architecture, Fifth Edition Sajjan G. Shiva, 2013-12-20. Suitable for a one or two semester undergraduate or beginning graduate course in computer science and computer engineering. Computer Organization Design and Architecture Fifth Edition presents the operating principles, capabilities, and limitations of digital computers to enable the development of complex yet efficient systems. With 11 new sections and four revised sections, this edition takes students through a solid up-to-date exploration of single and multiple processor systems, embedded architectures, and performance evaluation. See What's New in the Fifth Edition. Expanded coverage of embedded systems, mobile processors, and cloud computing. Material for the Architecture and Organization part of the 2013 IEEE ACM Draft Curricula for Computer Science and Engineering. Updated commercial machine architecture examples. The backbone of the book is a description of the complete design of a simple but complete hypothetical computer. The author then details the architectural features of contemporary computer systems selected from Intel, MIPS, ARM, Motorola, Cray, and various microcontrollers, etc., as enhancements to the structure of the simple computer. He also introduces performance enhancements and advanced architectures including networks, distributed systems, GRIDs, and cloud computing. Computer organization deals with providing just enough details on the operation of the computer system for sophisticated users and programmers. Often books on digital systems architecture fall into four categories: logic design, computer organization, hardware design, and system architecture. This book captures the important attributes of these four categories to present a comprehensive text that includes pertinent hardware, software, and system aspects.

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