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This book presents the basic concepts used in the design and analysis of digital systems and introduces the principles of digital

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This textbook covers digital design, fundamentals of computer architecture, and assembly language. The book starts by introducing 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; sequential logic; input/output; and CPU performance. The author also covers ARM architecture, ARM instructions and ARM assembly language which is

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personal appliances such as portable telephones. In using the term engineering the authors have in mind a development process that operates in an integrated sequence of steps, employing defined techniques that have some scientific basis.

Furthermore we expect the operation of the stages to be subject to controls and standards that result in a product fit for its intended purpose, both in the hands of its users and as a business venture. Thus the process must take account of a wide range of requirements relating to function, cost, size, reliability and so on. It is more difficult to

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define the meaning of
computing technology. These
days this involves much more
than computers and software.
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For example, many tasks that
might be performed by
software running in a
general purpose computer can
also be performed directly
by the basic technology used
to construct a computer,
namely digital hardware.
However, hardware need not
always be digital; we live
in an analogue world, hence
analogue signals appear on
the boundaries of our
systems and it can sometimes
be advantageous to allow
them to penetrate further.

Designed as an introductory

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text for the students of computer science, computer applications, electronics engineering and information technology for their first course on the organization and architecture of computers, this accessible, student friendly text gives a clear and in-depth analysis of the basic principles underlying the subject. This self-contained text devotes one full chapter to the basics of digital logic. While the initial chapters describe in detail about computer organization, including CPU design, ALU design, memory design and I/O organization, the text also deals with

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pays to Cache and Virtual
Memory organization, as well
as to RISC architecture and
the intricacies of
pipelining. All these
discussions are climaxed by
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chapter has learning

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quickly revise the material.

Not only does almost

everyone in the civilized

world use a personal

computer, smartphone, and/or

tablet on a daily basis to

communicate with others and

access information, but

virtually every other modern

appliance, vehicle, or other

device has one or more

computers embedded inside

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it. One cannot purchase a current-model automobile, for example, without several computers on board to do everything from monitoring exhaust emissions, to operating the anti-lock brakes, to telling the transmission when to shift, and so on. Appliances such as clothes washers and dryers, microwave ovens, refrigerators, etc. are almost all digitally controlled. Gaming consoles like Xbox, PlayStation, and Wii are powerful computer systems with enhanced capabilities for user interaction. Computers are everywhere, even when we don't see them as such, and

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ever for students who will soon enter the workforce to understand how they work. This book is completely updated and revised for a one-semester upper level undergraduate course in Computer Architecture, and suitable for use in an undergraduate CS, EE, or CE curriculum at the junior or senior level. Students should have had a course(s) covering introductory topics in digital logic and computer organization. While this is not a text for a programming course, the reader should be familiar with computer programming concepts in at least one

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language such as C, C++, or Java. Previous courses in operating systems, assembly language, and/or systems programming would be helpful, but are not essential.

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