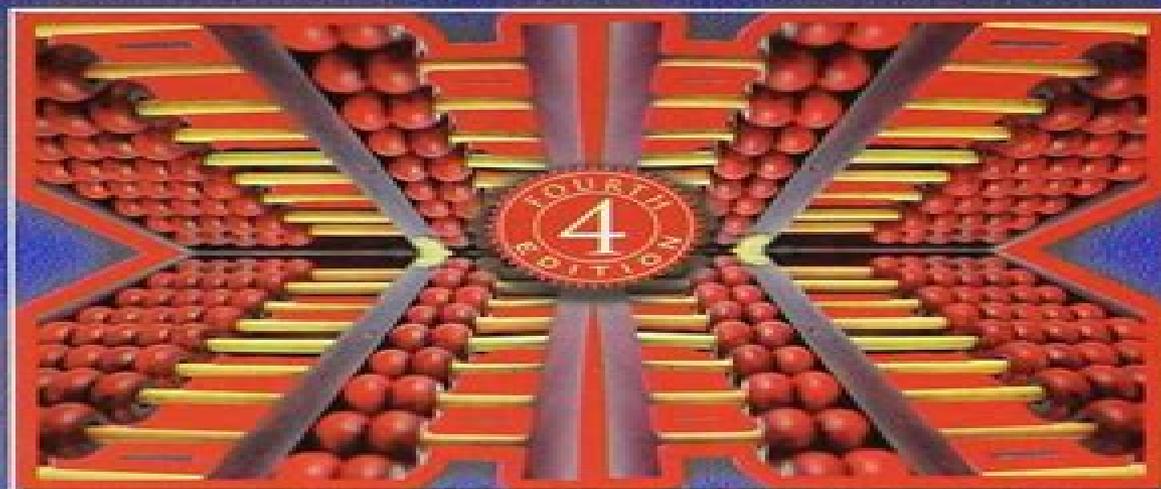


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# Computer Organization And Design 4th Edition

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computers in the second part Besides discussing data representation arithmetic operations Boolean algebra and its application in designing combinatorial and sequential switching circuits the book introduces the Algorithmic State Machines which are used to develop a hardware description language for the design of digital systems The organization of a small hypothetical computer is described to illustrate how instruction sets are evolved Real computers namely Pentium and MIPS machines are described and compared with the hypothetical computer After discussing the features of a CPU I O devices and I O organization cache and virtual memory the book concludes with a new chapter on the use of parallelism to enhance the speed of computers Besides the fifth edition has new material in CMOS gates MSI ALU and Pentium5 architecture The chapter on Cache and Virtual Memory has been rewritten

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web where  $v$  is velocity of sound in  $\text{m s}^{-1}$   $t$  is temperature in  $^{\circ}\text{C}$  and  $p_0$  is absolute pressure in pascals this equation is accurate to within  $0.015 \text{ m s}^{-1}$  between  $0.001$  and  $95.126^{\circ}\text{C}$

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web 1 v  $\gamma r t$  m a constant for the particular gas r universal gas constant m molar mass kg mol t temperature measured in kelvin the measured speed of sound at

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