

maintains an appropriate balance between the basic concepts and the skill sets needed for system design. Besides, the book lucidly explains the hardware architecture, the instruction set and programming, support chips, peripheral interfacing, and cites several relevant examples to help the readers develop a complete understanding of industrial application projects. Several system design case studies are included to reinforce the concepts discussed. With exhaustive coverage provided and practical approach emphasized, the book would be indispensable to undergraduate students of Electrical and Electronics, Electronics and Communication, and Electronics and Instrumentation Engineering. It can be used for a variety of courses in Microprocessors, Microcontrollers, and Embedded System Design.

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An Introduction to Microprocessor and Applications introduces workings of the microprocessor, its applications, and programming in assembler and high-level languages. Practical work and knowledge-check questions contribute to building a thorough understand

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This book provides the fundamental concepts of system design using microprocessors in the field of agriculture instrumentation. It begins with an introduction to the field of agriculture and application of instrumentation in agriculture, and the book then covers the transducers specific to the agricultural field. The binary number system and arithmetic are covered as the basic building block of digital circuits and computer organization. The microprocessor basics and Intel 8085 hardware and software have been discussed in detail. The book describes microprocessor peripheral inter-facing and its support chips such as Intel 8225, Intel 8253 and Intel 8279 along with their applications. It discusses analog to digital and digital to analog interface, CRT terminal interface and printer interface. In addition, the book includes case studies on various microprocessor applications in agriculture, such as microprocessor-based system design for grain moisture, safe grain storage, soil nutrient estimation and drip irrigation. Finally, the book ends with an advanced and futuristic topic on precision agriculture to give an exposure to students about future developments in the agricultural system. Key Features : • From concepts to design, the book follows a step-by-step approach. • Gives a large number of figures for easy understanding of theory. • Includes a good number of examples and end-of-chapter exercises both in the hardware and software sections. • Presents a number of case studies on the design of microprocessor-based agri-instrumentation systems. • Offers

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Intended as a text for undergraduate and postgraduate students of engineering in Computer Science and Engineering, Information Technology, and students pursuing courses in computer applications (BCA/MCA) and computer science (B.Sc./M.Sc.), this state-of-the-art study acquaints the students with concepts and implementations in computer architectures. Though a new title, it is a completely reorganized, thoroughly revised and fully updated version of the author's earlier book Perspectives in Computer Architecture. The text begins with a brief account of the very early history of computers and describes the von Neumann IAS type of computers; then it goes on to give a brief introduction to the subsequent advances in computer systems covering device technologies, operational aspects, system organization and applications. This is followed by an analysis of the advances and innovations that have taken place in these areas. Advanced concepts such as look-ahead, pipelining, RISC architectures, and multi-programming are fully analyzed. The text concludes with a discussion on such topical subjects as computer networks, microprocessors and microcomputers, microprocessor families, Intel Pentium series, and newer high-power processors.

HALLMARKS OF THE BOOK The text fully reflects Professor P.V.S. Rao's long experience as an eminent academic and his professional experience as an adviser to leading telecommunications/software companies. Gives a systematic account of the

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evolution of computers Provides a large number of exercises to drill the students in self-study. The five Appendices at the end of the text, cover the basic concepts to enable the students to have a better understanding of the subject. Besides students, practising engineers should also find this book to be of immense value to them.

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