

Douglas V Hall Microprocessor And Interfacing Revised 2nd Edition

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“Modern Component Families and Circuit Block Design gathers and summarizes this material in a single volume, and also provides a designer's viewpoint on modern components. This book provides a practical approach to design problems rather than a generic analysis of broad engineering issues.”--BOOK JACKET. Discusses the Shift from the 8080 Chip to the 8085 8-Bit Microprocessor & Introduces the 16-Bit Microprocessor This book provides the students with a solid foundation in the technology of microprocessors and microcontrollers, their principles and applications. It comprehensively presents the material necessary for understanding the internal architecture as well as system design aspects of Intel's legendary 8085 and 8086 microprocessors and Intel's 8051 and 8096 microcontrollers. The book throughout 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

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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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The book uses microprocessors 8085 and above to explain the various concepts. It not only covers the syllabi of most Indian universities but also provides additional information about the latest developments like Intel Core[®] II Duo, making it one of the most updated textbook in the market. The book has an excellent pedagogy; sections like food for thought and quicksand corner make for an interesting read. This text book focuses on helping the students to develop skills in all the four dimensions of communication, namely listening, speaking, reading, and writing. While maintaining a practice-oriented approach, the book also provides a comprehensive review of the principles of technical communication. Simple presentation, step-by-step discussion, use of examples, and the practice modules will help students in mastering the subject.

A presentation of developments in microcontroller technology, providing lucid instructions on its many and varied applications. It focuses on the popular eight-bit microcontroller, the 8051, and the 83C552. The text

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outlines a systematic methodology for small-scale, control-dominated embedded systems, and is accompanied by a disk of all the example problems included in the book.

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.

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Presents a number of case studies on the design of microprocessor-based agri-instrumentation systems. • Offers exercises on the case studies which can be used for further development of the concepts. The book is primarily intended for the undergraduate and postgraduate students of agricultural engineering for their courses on agri instrumen-tation and microprocessor applications in agriculture.

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Provides Listings of Hardware, Software & Peripherals Currently Available, as Well as Books, Magazines, Clubs, User Groups & Virtually All Other Microcomputer-related Services. Includes Background Information & Glossary

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