

# Mini Projects Using 8085 Microprocessor

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*Mohamed Rafiquzzaman Barry B. Brey Barry B. Brey Michel Aumiaux James L. Antonakos C. K. Yuen Barry B. Brey Alan C. Dixon David L. Heiserman*

designed for an undergraduate course on the 8085 microprocessor this text provides comprehensive coverage of the programming and interfacing of the 8 bit microprocessor written in a simple and easy to understand manner this book introduces the reader to the basics and the architecture of the 8085 microprocessor it presents balanced coverage of both hardware and software concepts related to the microprocessor

this text is designed to provide hands on experience to students to help them develop an understanding of the hardware components of a microprocessor and the role of software in programming and interfacing aspects of the microprocessor an 8 bit microprocessor due to its simpler instruction set and architecture is an ideal ic chip for providing the students with a solid foundation for micro processors their principles and applications the concepts of all state of the art processors can be understood easily once the basics of the 8085 are understood today s sophisticated microprocessors have a semblance of 8085 the presentation style adopted in this book in a way is unique it is a student friendly text written as conversation between the teacher and the students the book lucidly explains the various programming examples in assembly language with a view to enabling students to develop microprocessor based industrial application projects application programs developed in the book are based on the popular microprocessor kit namely sda 85 the book is suitable for both diploma and degree level students pursuing courses in electronics and electrical engineering electronics and communication engineering and information and communication technology

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this comprehensive and thoroughly updated text now in its second edition continues to provide the complete knowledge about the intel s 8085 microprocessors its programming and concept of interfacing of memory input output devices and programmable peripheral chips organized in four parts part i chapters 1 9 covers a review of the analog and digital signals as well as hardware and software related aspects of microprocessor 8085 part ii chapters 10 and 11 discusses memory and input output concepts analog to digital and digital to analog converters and various memory and io address decoding techniques part iii chapters 12 17 explains the programmable interfacing chips with extensive interfacing examples part iv chapters 18 and 19 presents a brief discussion on other 8 bit microprocessors along with 16 and 32 bit intel processors each topic has been supported with numerous examples that will help students apply the concepts to other microprocessors in the course at advanced level this book is designed specifically for the undergraduate students of electronics and communication engineering computer science and engineering and information technology new to this edition chapters on architecture and organization of microprocessor and instruction set of 8085 microprocessor have been revised and modified substantially multiple choice questions have been added to all the chapters

introduction to the microprocessor and computer 2 the microprocessor and its architecture 3 addressing modes 4 data movement instructions 5 arithmetic and logic instructions 6 program control instructions 7 programming the microprocessor 8 using assembly language with c c 9 8086 8088 hardware specifications 10 memory interface 11 basic i o interface 12 interrupts 13 direct memory access and dma controlled i o 14 the arithmetic coprocessor and mmx technology 15 bus interface 16 the 80186 80188 and 80286 microprocessors 17 the 80386 and 80468 microprocessors 18 the pentium and pentium pro microprocessors 19 the pentium ii pentium iii and pentium 4 microprocessors appendix a the assembler disk operating system basic i o system mouse and dpmi memory manager appendix b instruction set summary appendix c flag bit changes appendix d answers to selected even numbered questions and problems index

fuelled by example and application this text takes readers on an in depth hands on exploration of the hardware and software giving equal treatment to both of the intel 8088 microprocessor after examining more than 60 different applications antonakos guides readers through the construction and programming of their own 8088 based computer this edition expands coverage to include completely new topics while it updates treatments of existing topics in an overall effort to allow greater access to the power of the personal computer

very good no highlights or markup all pages are intact

coverage first concentrates on real mode assembly language programming compatible with all versions of the intel microprocessor family and compares and contrasts advanced family member with the foundational 8086 8088 this building block presentation is effective because the intel family units are so similar that learning advanced versions is easy once the basics are understood

a textbook for courses in digital electronics and microprocessors offered in departments of electrical engineering technology or computer science the book covers the basics of digital logic design and the design of microprocessor based systems also covered are computer fundamentals and microprocessor hardware and software 8085 with many programming examples the text describes most important available microprocessors with laboratory exercises instructional objectives and self evaluation questions

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