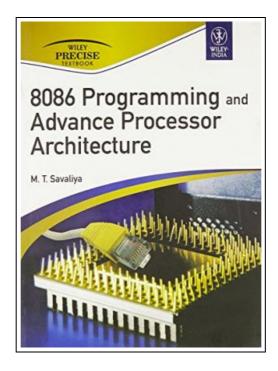
# 8086 Programming and Advance Processor Architecture



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Wiley India Pvt. Ltd, 2012. Softcover. Condition: New. The study of microprocessor architecture and programming is fundamental to many science and engineering branches including Computer Science/Engineering, Electronics Engineering, Electrical Engineering, Instrumentation and Control Engineering, M.Sc. in Electronics, M.Sc. in Information Technology and many more. This book is designed as a text for one semester course that covers microprocessor programming and architectures of advance processors. The book covers the architecture and programming of the popular Intel 16-bit microprocessor 8086 in depth; the architectural features of the 80286/386/486 processors; the protected mode software model of the 80386 including segmentation, protection, paging and multitasking; the technical overview of the Pentium family and finally overview of the RISC features with Sun SPARC overview. Chapter 1 Introducing the 8086 Microprocessor Learning Objectives 1.1 Introduction 1.2 Brief History of Intel Microprocessors 1.3 Overview of Microprocessor and Microcomputer 1.4 Features of the 8086 Microprocessor 1.5 The 8086 Architecture 1.6 Segmentation in the 8086 Microprocessor 1.7 The 8086 Pin Functions 1.8 Minimum and Maximum Mode 1.9 The 8086 Memory System Summary Glossary Objective Questions Review Questions Answers Chapter 2 Basics of the 8086 Programming Learning Objectives 2.1 Introduction 2.2 Programming Languages 2.3 The 8086 Programming Model 2.4 Instruction Formats 2.5 Addressing Modes 2.6 The 8086 Instruction Set Summary Glossary Objective Questions Review Questions Answers Chapter 3 Programming with Data Transfer, Arithmetic and Logical Instructions Learning Objectives 3.1 Introduction 3.2 Basic Assembler Directives 3.3 Writing and Executing a Program 3.4 Debugging a Program 3.5 Using DOS Service for Character and String I/O 3.6 Data Transfer Instructions 3.7 Arithmetic Instructions 3.8 Logical Instructions Summary Glossary Objective Questions Review Questions Programming Problems Answers Chapter 4 Branching and Looping Learning Objectives 4.1 Introduction 4.2 Unconditional Jump  $Instruction \ 4.3 \ Conditional \ Jump \ Instructions \ 4.4 \ Decision \ Making \ and \ Looping \ 4.5 \ Loop \ Instructions \ 4.6 \ ASCII \ and ...$ 



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