# Advanced Microprocessors

*By A P Godse, D A Godse*

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1. Introduction A Historical Background, The microprocessor-Based Personal Computer System. 2. Architecture of 8086 Internal Microprocessor Architecture, Real Mode Memory Addressing. 3. Addressing Modes Data Addressing Modes, Program Memory-Addressing Modes, Stack Memory Addressing Modes. 4. Data Movement Instructions and Assembler Detail MOV Revisited, PUSH/POP, Load Effective Address, String Data Transfer, Miscellaneous Data Transfer Instruction, Segment Override Prefix, Assembler Detail. 5. Arithmetic and Logic Instructions, String Instructions and Program Control Instructions Addition, Subtraction, and Comparison, Multiplication and Division, BCD and ASCII Arithmetic, Basic Logic Instructions, Shift and Rotate, String Comparisons. The Jump Group, Controlling the Flow of an Assembly Language Program, Procedures, Machine Control and Miscellaneous Instructions, Programming Examples. 6. Modular Programming, Data Conversion and Hardware Features of 8086 Modular Programming, Using the Keyboard and Video Display, Data Conversions. Pin Outs and the Pin Functions, Clock Generator (8284A), 9-3 Bus Buffering and Latching, 9-4 Bus Timing, READY and the Wait State, Minimum Mode Versus Maximum Mode. 7. Interrupts Basic Interrupt Processing, Hardware Interrupts, Expanding the Interrupt Structure, Interrupt Examples. 8. Arithmetic Coprocessor (8087) Data Formats for the Arithmetic Coprocessor, The 80X87 Architecture, Instruction, Instruction Set, Programming with the Arithmetic Coprocessor. 9. Bus Interface The Peripheral Component Interconnect (PCI) Bus, The Parallel Printer Interface (LPT), The Universal Serial Bus (USB). 10. The 80386, 80486 and Pentium Processors Introduction to the 80386 Microprocessor, Special 80386 Registers, Introduction to the 80486 Microprocessor, Introduction to the Pentium Microprocessor.

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## Editorial Review

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