

## Computer Architecture and Organization

By A.P. Godse, D.A. Godse

Technical Publications 0. Softcover. Book Condition: New. First edition. Introduction to Design Methodology Processor Basics Data path Design Control Design Memory Organization 1st editon, by Godse Introduction to Design Methodology: System design - System representation, Design process, The gate level (revision), The register level components and PLD (revision), Register level design. The processor level: Processor level components, Processor level design. Processor Basics: CPU organization - Fundamentals, Additional features. Data representation - Basic formats, Fixed point numbers, Floating point numbers. Instruction sets: Formats, Types, Programming considerations. Data path Design: Fixed point arithmetic - Addition and subtraction, Multiplication and division, Floating point arithmetic, Pipelining. Control Design: Basic concepts - Introduction, Hardwired control, Microprogrammed control - Introduction, Multiplier control unit, CPU control unit, Pipeline control - Instruction pipelines, Pipeline performance. Memory Organization: Multilevel memories, Address translation, Memory allocation, Caches - Main features, Address mapping, Structure vs performance System Organization: Communication methods - Basic concepts, Bus control. Introduction to 8085 Printed Pages: 648.





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