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Nota di contenuto	Microprocessor Theory and Applications with 68000/68020 and Pentium; CONTENTS; PREFACE; CREDITS; 1. INTRODUCTION TO MICROPROCESSORS; 1.1 Explanation of Terms; 1.2 Microprocessor Data Types; 1.2.1 Unsigned and Signed Binary Numbers; 1.2.2 ASCII and EBCDIC Codes; 1.2.3 Unpacked and Packed Binary-Coded-Decimal Numbers; 1.2.4 Floating-point Numbers; 1.3 Evolution of the Microprocessor; 1.4 Typical Features of 32-bit and 64-bit Microprocessors; 1.5 Microprocessor-based System Design Concepts; 1.6 Typical Microprocessor Applications; 1.6.1 A Simple Microprocessor Application 1.6.2 Examples of Typical Microprocessor Applications2. MICROCOMPUTER ARCHITECTURE; 2.1 Basic Blocks of a Microcomputer; 2.2 Typical Microcomputer Architecture; 2.2.1 System Bus; 2.2.2 Clock Signals; 2.3 Single-Chip Microprocessor; 2.3.1 Register Section; 2.3.2 Control Unit; 2.3.3 Arithmetic-Logic Unit; 2.3.4 Functional Representations of Simple and Typical Microprocessors; 2.3.5

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Sommario/riassunto

A self-contained introduction to microprocessor theory and applications This book presents the fundamental concepts of assembly language programming and system design associated with typical microprocessors, such as the Motorola MC68000/68020 and Intel? Pentium?. It begins with an overview of microprocessors--including an explanation of terms, the evolution of the microprocessor, and typical applications--and goes on to systematically cover:
 Microcomputer architecture
 Microprocessor memory organization
 Microprocessor Input/Output (I/O)
 Microprocessor programming concept