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The 8051 Architecture 8051
Microcontroller Hardware, The 8051
Oscillator and Clock, Program Counter
and Data Pointer, A and B CPU Registers,
Flags and the Program Status Word

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(PSW), Internal Memory, Internal RAM,
The Stack and the Stack Pointer, Special
Function Registers, Internal ROM,
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Memory, Connecting External Memory

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microcontroller as well as an extra 128
bytes of RAM and an extra timer. It also
has 8K bytes of on-chip program ROM
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microcontroller, one of the most common microprocessors used in controls or instrumentation applications that use assembly code.

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component of an embedded system which fetch the instructions and execute them. Microcontrollers take the inputs for a system, and process the outputs. Hence this article is designed to make you aware of the 8051 Microcontroller.

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From Chapter 7, this book uses both

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Assembly and C to show the 8051 interfacing with real-world devices such as LCDs, keyboards, ADCs, sensors, real-time-clocks and the DC and Stepper motors, The use of a large number of examples helps the reader gain mastery of the topic rapidly and move on to the topic of embedded systems project design.

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