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SYSTEMS FROM
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Life Cycle** History

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can be considered
as computer
hardware systems
having software

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embedded in it.

They can be either independent systems or parts of other large systems performing particular tasks....

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This book, equally applicable for a

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Systems, keeping a

balanced coverage

of hardware and

software concepts.

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syllabus needs, this

title is

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'microprocessor'
and 'software
design
methodology'
specific, giving due
weightage to
architecture,
programming and
design aspects.

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An embedded software or embedded system programming is computer software, which is used to control devices by providing a set of instructions. It is also named as firmware, various devices with various

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functionalities can be programmed using embedded software, by maintaining design constraints (like response time constraints, strict deadlines, and processed data) and storing the final data in memory (Ram/Rom).

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Key Features:

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Written for the first course on Embedded Systems, the book keeps the needs of budding systems designers in sharp focus. The book first details the basic hardware and software elements of an embedded system followed by interfacing and

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techniques to
embed codes into
the system.

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In embedded
systems design,
there is no single
language that is

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the perfect solution
for every system.

Programming
language

standards, and
what they

introduce into an
embedded systems
architecture, are
used as an

example in this
section, because a
programming
language can

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introduce an additional component into an embedded architecture. In addition, embedded systems software is inherently based on one or some combination of multiple languages. The examples discussed in-depth

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in this section ...

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Computer
architecture In
embedded
systems, the
microprocessor's
role and function
are usually the
same as those of

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the CPU in a general-purpose computer: control computer operation, execute instructions, and process data. In many cases, the microprocessor in an embedded system is also called the CPU. Memory is used to store instructions

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make up

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'microprocessor' and 'software design

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based embedded
design requires
detailed knowledge
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