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***CMOS circuits  
from design to  
implementation  
CMOS: Circuit  
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Edition covers  
the practical  
design of both  
analog and  
digital  
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circuit blocks,  
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model, data  
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path approach  
to the topics:  
design  
techniques are  
developed for  
both long- and  
short-channel  
CMOS  
technologies  
and then  
compared. The  
results are mult***

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***idimensional  
explanations  
that allow  
readers to gain  
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process.***

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technology's***

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***movement into  
nanometer sizes***

***Solutions on  
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delay-locked  
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signal circuits,  
data converters,  
and circuit  
noise More  
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figures, 200  
examples, and***

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***world process***

***parameters and***

***design rules***

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LTspice, and  
WinSpice;  
layout tools and  
examples for  
actually  
fabricating a  
chip; and videos  
to aid learning***

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Janice***

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Guide/Solutions  
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to all in-chapter  
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problems. Each  
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*this book,  
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*readers will be  
able to build  
their own  
microprocessor  
and will have a  
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understanding  
of how it works.  
Beginning with  
digital logic  
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circuits, this  
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SystemVerilog  
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show how to  
use the  
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computer to  
communicate  
with peripheral  
devices such as  
LCDs,  
Bluetooth  
radios, and  
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valuable  
resource for  
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computer  
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sequence in  
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examples of the  
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log and  
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text that  
enhance the  
reader's  
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added more  
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emphaisis on  
design through  
the use of  
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notes. Some  
pedagogical  
elements  
include chapter  
opening  
vignettes,  
chapter  
objectives,  
"Electronics in  
Action" boxes,  
a problem  
solving



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and "design  
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including new  
design  
examples, has  
been increased,  
giving students  
more  
opportunity to  
see problems

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less

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fundamental  
knowledge  
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complements  
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by allowing



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students to "learn-by-doing" and to explore the realm of real-world engineering based on the material from the main text. The equipment necessary to undertake the experiments is

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consciously  
kept at a  
minimum in  
order to take  
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