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The scaling of the CMOS channel length to below  $0.5 \mu\text{m}$  and increase of the chip density to the ULSI range have placed power

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dissipation on an equal footing with performance as a figure of merit in digital circuit design.

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- The VLSI low power design problems can be broadly classified into two: 1) Analysis 2) Optimization
- Analysis problems are concerned about the accurate estimation of the power or energy dissipation at different phases of the design process.



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- The purpose is to increase confidence of the design with the

## UNIT 5: Low – Power CMOS Logic Circuits

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2009, Kaushik Roy ...

We implement comparator circuits using conventional CMOS (Complementary Metal Oxide Semiconductor) and dynamic CMOS logic styles. Conventional CMOS technology implementation offers low power because of the nMOS and

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pMOS transistors behavior. While the pull-up network is on, the pull-down network is off and vice-versa.

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5: Inverter characteristic-I (Slides)

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Low Power VLSI Circuits and Systems

| Nijwm Wary

Considering this, there seems a need  
to develop a solution that can make  
use of low voltage and low power

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design techniques. The power consumption is also considered as an important criterion in VLSI design along with timing and area. In order to create an ideal solution for this problem, Low Power Design has to be considered as a crucial factor.

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## Static and Dynamic Power Dissipation ~ VLSI Guide

One of the key features that led to the success of complementary metal-oxide semiconductor, or CMOS, technology was its intrinsic low-power consumption. This meant that circuit designers and electronic design



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automation (EDA) tools could afford to concentrate on maximizing circuit performance and minimizing circuit area.

[Power optimization \(EDA\) - Wikipedia](#)  
CMOS logic consumes over 7 times less power than NMOS logic, and

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about 100,000 times less power than bipolar transistor-transistor logic (TTL). CMOS circuits use a combination of p-type and n-type metal-oxide-semiconductor field-effect transistor (MOSFETs) to implement logic gates and other digital circuits.

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## CMOS - Wikipedia

Included in this chapter is one important area which is the I/O circuits. The power dissipation of the I/O circuits is also analyzed. Finally, low-power techniques for CMOS design are also reviewed at the

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1st Edition. We will cover the low-power issues at subsystem/system/architecture levels in Chapter 6, 7 and 8 in more detail. Several books treat in detail other CMOS circuit design aspects [1, 2, 3]. The reader can refer to them.

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Method: A new low power full adder cell has been proposed with a hybrid XOR/XNOR module by using CNFET, which is also compatible for the CMOS technology nodes. The performance of the adder cell is validated with

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HSPICE simulation in terms of power,  
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