Comparative Analysis of Metastability with D FLIP FLOP in CMOS Circuits

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Authors:
Manisha Thakur
Puran Gaur
Braj Bihari Soni

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Abstract

The appropriate choice of flip-flop topologies is of essential importance in the design of integrated circuits for CMOS VLSI high-performance and high-speed circuits. The understanding of the suitability of the flip-flops and select the best topology for a given application is important to meet the need of the design to meet low power and high performance circuit subject. This work shows a wide area comparison exist in D flip-flop, this provides a wide study of the topologies in terms of power dissipation, delay, and rise delay and fall delay time.

References

- Haiqing Nan and Ken Choi "High Performance, Low Cost, and Robust Soft Error
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Index Terms

Computer Science
Circuits And Systems

Keywords

Metastability  D Latch  Flip-Flop  Microwind.