

D flip-flop design by adiabatic technique for low power applications

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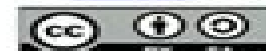
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ABSTRACT

Indigital circuits, energy reduction is the most important parameter in the design of handy and battery-operated devices. Flip-flop is an important component in any digital system. By improving the performance of flip-flop, complete system performance is better. This paper addresses the design of D flip-flop using direct current diode-based positive feedback adiabatic logic (DC-DB PFAL) at various frequencies at 45nm technology node. Further, the layout for the proposed design is also presented. The performance analysis is carried out for delay, power dissipation, power delay product and transistor count. Circuit simulation is done by using cadence virtuoso tool at 10 MHz and 100 MHz frequencies. The results show an improvement in power dissipation of 18% with less transistors count compared to existing designs in the literature.

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1. INTRODUCTION

As battery-powered devices become smaller, the size of the devices also shrinks. Low-power very large scale integration design has been progressively increasing due to speedy and inventive development [1]. Because of the rapid advancement of personal devices, high-performance digital signal processors and the internet of things, low power, fault tolerance, and high-performance devices are in greater demand [2], [3]. Alam *et al.* [4] have presented the low-power, small, and modular complementary metal-oxide semiconductor amplifier for modern radio frequency receivers, showing the improvement in power dissipation and gain range. Sulaiman [5] have presented multi-objective Pareto front and particle swarm optimization techniques to minimize energy consumption and delay in microprocessors.

The adiabatic technique is one of the innovative approaches for minimum power dissipation at the circuit logic level if the time constraint is not critical. The most optimum approach is adiabatic-logic, which stores energy in the capacitor rather than discharging it to the ground. Adiabatic is a thermodynamic term that describes a procedure in which energy is not shared with the environment, hence, there is no energy dissipation [6]. Chaudhary *et al.* [7] presented a low-power memory cell using the adiabatic technique. Sharma and Noor [8] designed a semi-adiabatic positive feedback adiabatic logic (PFAL) based dual-rail D flip-flop. A positive-edge flip-flop is implemented in a master-slave configuration. The primary inverter/buffer setup is utilized to regulate the operation of the D flip-flop after adding additional transistors. Sharma and Noor [9] implemented asynchronous reset capability in a complementary pass transistor logic based adiabatic gated (CPLAG) NOR gate. It may be made synchronous with the count of an extra transistor and the reference clock

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