Abstract

The effects aging of digital circuits are came into the focused due to observations made with several experiments and researchers has start working towards making changes for the improvements in base paper architecture. The integrated device suffers with NBTI and PBTI due to CMOS semiconductor properties and it affects the working of different logic operations and in the same context here we have taken multiplier for consideration and working to develop delay efficient multiplier with aging aware design using adaptive hold logic which is modified in this work to reduce effective delay to speedup circuit logic. The simulation of experiments are conducted in Xilinx IDE 13.1.

References


**Index Terms**

Computer Science

Circuits and Systems

**Keywords**
Adaptive hold logic, row bypassing, column bypassing, Multiplier, Aging Effect, NBTI, PBTI, Delay Efficient