



ChemTech

## International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555  
Vol.11 No.04, pp 116-120, 2018

### A Novel DBB (Difference Based Borrow) Subtractor for Low Power Applications

Shabeerkhan .S\*, Padma .A

CSE, Muthayammal Engineering College, Rasipuram, Namakkal, India

**Abstract :** Power is one of the most significant design bound after speed, in integrated circuit. One of the basic essential component in such circuit is adder and subtractor. In order to optimize such circuits there is need of designing proficient and low power fundamental blocks. we present a new design of the full subtractor based on difference based borrow calculation . The proposed full subtractor is optimized in terms of delay, cost and power. The proposed reversible full subtractor is shown to be better than the existing design. The proposed subtractors proposed in this work will be useful in a number of digital signal processing applications.

Shabeerkhan .S *et al* /International Journal of ChemTech Research, 2018,11(04): 116-120.

DOI : <http://dx.doi.org/10.20902/IJCTR.2018.110413>

\*\*\*\*\*