Abstract

As most digital system cannot subtract, they can only add, so we needed a method of compliments to subtract. The knowledge of Compliments, r’s and (r-1)’s in number systems, their representation, limits, is essential for understanding of computers and successful programming for digital devices in this paper we discussed r’s and (r-1)’s compliments subtraction through Traditional number system and Strange number system, their properties and subtraction in the light of different prospective. Traditional number system – binary, octal, decimal and hexadecimal, in regular use and Strange number system, with an extra edge of memorized information with greater density, zero redundancy problem, avoiding sign problem and reducing complexity of interconnections, - unodecimal, duodecimal, tridecimal, quadrodecimal, pentadecimal, heptadecimal, octodecimal, nona decimal, vigesimal and further are discussed through compliments.
Index Terms

Computer Science  
Digital Communication

Keywords
Compliments r’s and r-1’s signed and unsigned numbers