significant research topic in recent years. Codon is an important element in DNA sequence which is responsible for formation of protein in genes. 64 codons of genes are modeled using MOSFET from elementary level and characterized them based on purine and pyrimidine property. The model is realized in Spice domain and a new genetic code classification table is described based on simulated transient voltage and current responses of purine and pyrimidine bases. The effect of base position is investigated using frequency domain analysis of voltage and phase characteristics of codon electrical circuit.
References

Codon Characterization based on Electrical Response


Index Terms

Computer Science  Power Systems

Keywords

Codon  Dna  Nucleotides Electrical Model  Mosfet.