

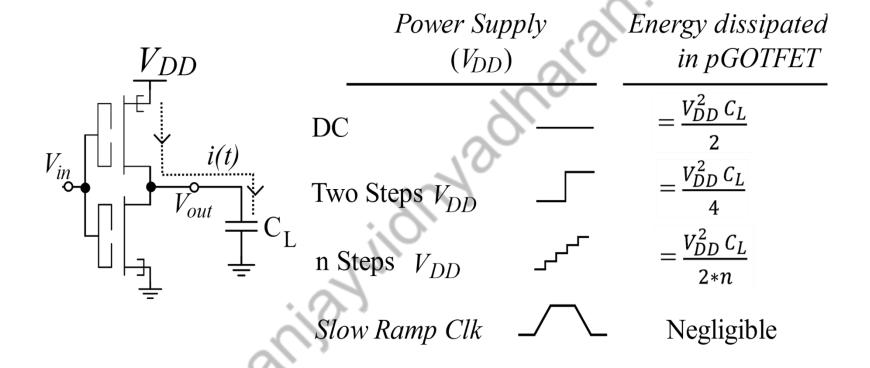
VLSI Design: 2021-22 Lecture 14 Adiabatic Logic

By Dr. Sanjay Vidhyadharan

ELECTRICAL

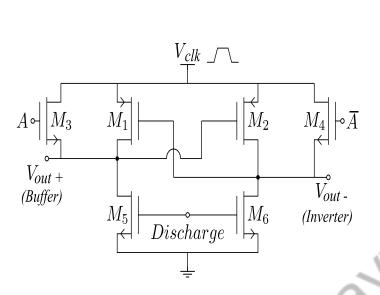
Adiabatic Logic

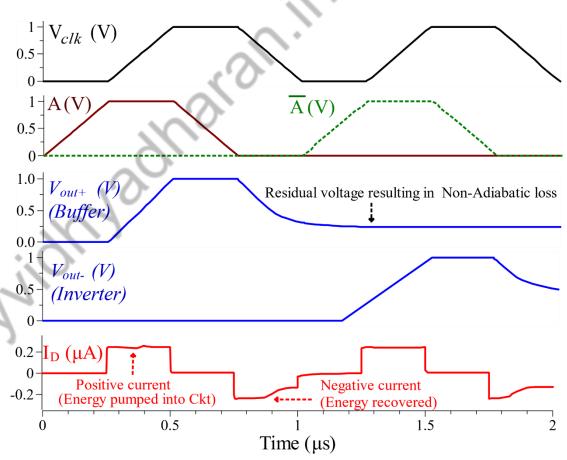
1. Adiabatic Operation



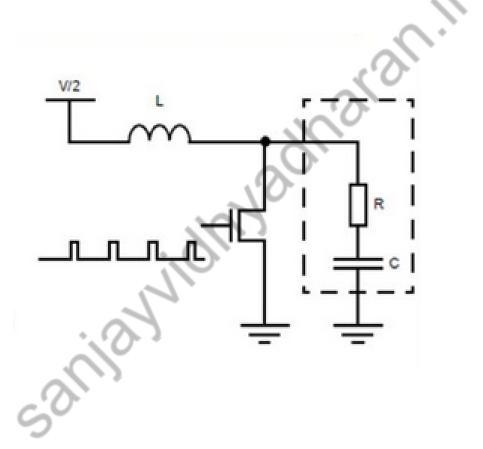
Adiabatic Logic

CMOS Symmetric Pass Gate Adiabatic Logic

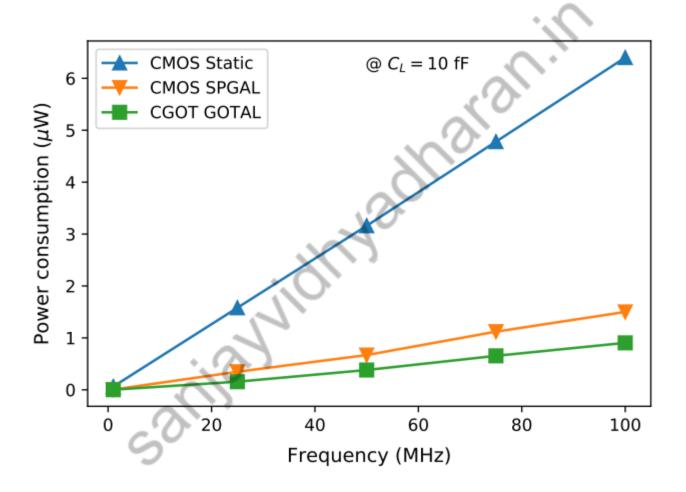




Adiabatic Logic



Adiabatic Logic vs. Static CMOS



Sanjay Vidhyadharan et all "An advanced adiabatic logic using Gate Overlap Tunnel FET (GOTFET) devices for ultra-low power VLSI sensor applications"

Thank you

4/3/2022