

A Modified Gate Diffusion Input Technique Based Proficient 4 Bit Prior...

In this project, 4-bit priority encoder using the modified gate diffusion input technique has been proposed. The priority encoder finds its wide scope as microprocessor interrupt controllers in digital and computer systems, where they classify the highest priority input. A Priority level is assigned to every input. The currently active input that has the highest importance agrees well with the output. A simulation was carried out using Cadence 180 nm technology and compared complementary CMOS with Modified Gate Diffusion Input technique. GDI technique has high speed & limited power consumption.

Domain: Back End Domains / Transistor Logic
Technology: VLSI