CMOS Technology - Overview

CMOS Transistor Pair (n-well process)
N-WELL CMOS TECHNOLOGY
N-WELL CMOS TECHNOLOGY

(a)

(b)

p

Silicon nitride

p

n
N-WELL CMOS TECHNOLOGY
N-WELL CMOS TECHNOLOGY

(a)

(b)
N-WELL CMOS TECHNOLOGY

(a)

(b)
N-WELL CMOS TECHNOLOGY
N-WELL CMOS TECHNOLOGY
N-WELL CMOS TECHNOLOGY

(a)

(b)
N-WELL CMOS TECHNOLOGY
N-WELL CMOS TECHNOLOGY

(a)

(b)
N-WELL CMOS TECHNOLOGY

(a) GND in
out
V_{DD}

(b) GND in
V_{DD}

Metal
Thin oxide
n-channel transistor

p-channel transistor

n-well
n'

Poly

SiO₂

SiO₂

p'

p+