

Recent progress

Weiguo Lu 27 Sep. 2018

EDA and Design kit

- IC617
- MMSIM151
- INCISIV132

- Hotcode_patch包未装
- General目录下的两个tar包未安装

Triple-well or quadruple-well process?

27 Sep. 2018

Power saving

1.1 Absolute Maximum Ratings

Symbol	Parameter	Min	Max	Unit
V_{DD}	DC Supply Voltage	-0.5	2.2	V
V_{IN}	Input Voltage	-0.5	2.2	V
T _{STO}	Storage Temperature	-65	150	°C

1.2 Recommended Operating Conditions

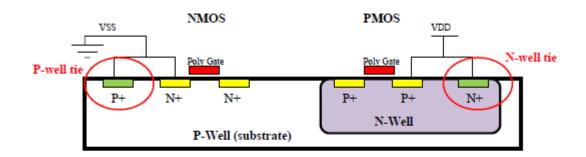
Symbol	Parameter	Min	Max	Unit
V_{DD}	DC Supply Voltage	1.08	1.98	V
V _{IN}	Input Voltage	0	V _{DD}	V
V _{OUT}	Output voltage outputs active	0	V _{DD}	V
TJ	Junction Temperature	-40	125	°C

- Standard cell lib tsl18fs120
- Independent supply for digital with lower voltage

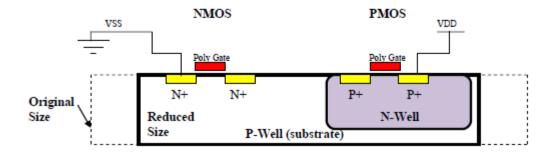
27 Sep. 2018 3

Area saving

Structure of Cmos device inside regular std-cell library:



Structure of Cmos device inside tapless std-cell library:



- Tapless stdcell library tsl18fs190svt
 - Should be more compact
 - Any limitation?
 - More details on Digital Design User Guide

27 Sep. 2018

Plan for cell integration sim

- Very little time left for simulation according to the schedule
- Main simulation goals
 - Psrr
 - Noise
 - Corner
- Any suggestions?

27 Sep. 2018 5