Dim - To study nMOS characteristics, introduction to VLSI &

Symica IDE

Process of cucating an integrated circuit by combining millions of transistor into a single thip . Before VLSI, ICs had a circuit functionality. Takey VLSI, seventies much the growth of transistor of transistor of transistor of transistor on a single chip. Since than the number of transistor on a single chip. Since then the number of transistor on a single chip. Since then, the number of transistor on a ringle chip are incaearing continuously. The nevel was pushed focusously with not of duction to micuo processors.

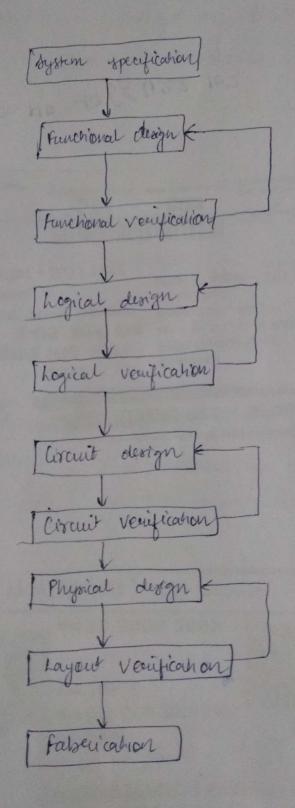
VISI Design flow

a security of super and eventually produced a packaged chip. A sypical design flow, yell may be impresented by frow thank.

System specification

ght is a high level representation of system. The factor to be considered are perfecuence functionally and physical dimensions, fatorication and design technique

This includes decision of RISC vs (180 no of alle floating point units, number and strouchur of pipelines



VISI design flow

are design

control from, word width, negister anotation anotherete operation and logic operation of the design that neperosent the functional design are decrived the description is called mogester transfer level and is expressed in HOL such as VHDL/ vecilog

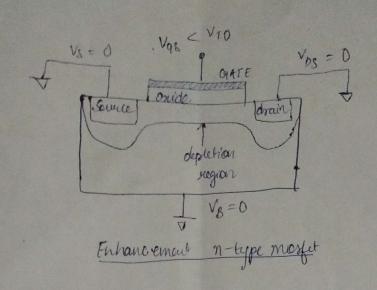
Crait design

It develops a cet representation based on logic design. The boolean expression are converted into eircuit representations by speed power.

Physical design

Circuit elespresentation is converted to a greenetic representation who is called layour, It is created by convening each copie component who geometric representation

p channel MOSFET



Aymica DE

97 is a software suite which makes designing easy & accurate 24 includes various tools including schematic edition, waveform viewer and analysia. It prevoitides complete ecosystem for designing & developing.

Features —

- 1 Herrauchial namigation
- (3) commany used design structure, organised around libraries, cells
- (3) Mepible simulation environnmat
- (2) Rowengul waveform viowen

Result we studied basics of MOSFET, VISLAND symia IDE



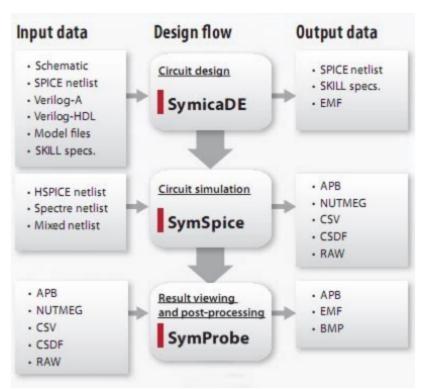


Figure 1: Symica DE Design Flow