NGSPICE:-

Netlist > interconnection of elements.

Model Files => Describe the physical behavior of active elements.

(.include TSMC_180nm.txt, UMC 180nm, IBM

(. Include TSMC_140nm+++, UMC 180mm, TBM 180nm etc).

Mes /pmes

PC, AC, transient, noise etc.

How to write a Netlist?

i) Heading.

2) include files . include TSMC_180nm

3) Ckt description

→ Capacitors

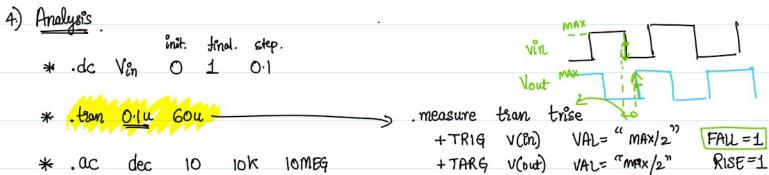
→ Resistor

-> Voltage sources.

 $*AC \rightarrow ac 1$

M, Drain Gate Source Body
$$\underline{Model}$$
 W= $\{$ $\}$ L= $\{$ $\}$ + AS= $\{$ $\}$ PS= $\{$ $\}$ AD= $\{$ $\}$ PD= $\{$ $\}$

* subckt



5) Control commands

control
run
plot v(in) v(out) ---plot dB(-v(out)/v(in))

<u>endc</u>