

Mitel Semiconductor has been using for several years SPICE parameters for internal IC Design.

For Custom Silicon Wafer Foundry, we are now offering expanded services with State-of-the-Art Hardware and Software Data extraction.

Available Models:

MOS MODEL 3

Parameters are routinely extracted on sampling of production PCM (Process Control Monitor).

Additional MODELS

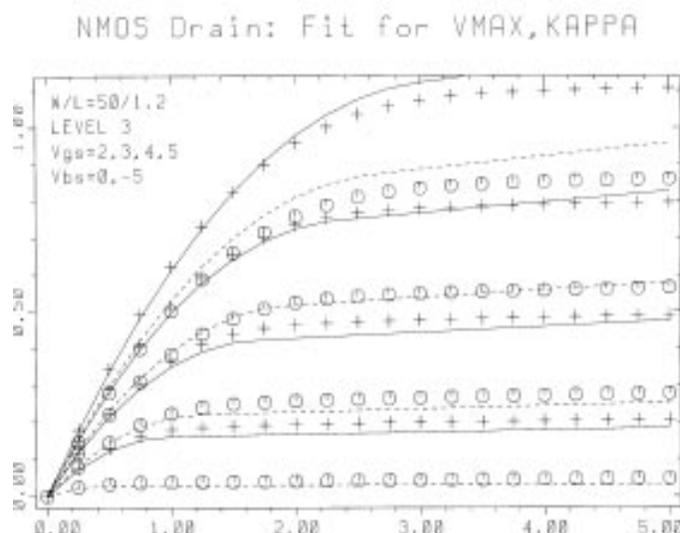
All Standard models supported by HSPICE[™] and BERKELEY SPICE[™] can be made available on request.

ACCESS

- Hard Copy
- Floppy Disk
- Electronic Mail
- Internet Network

Example of Nominal Values for 1.2um NMOS Transistor:

```
.lib nnom
.MODEL qn nmos
+ level= 3.0
+ ld = 5.980e-09
+ dw= -1.453e-07
+ xl = -1.178e-07
+ vto= 0.7658
+ tpg= 1.0
+ nsub= 2.433e+16
+ cgdo= 1.127e-10
+ cgso= 1.127e-10
+ capop= 4.0
+ tox= 2.233e-08
+ acm= 0.0
+ js = 2.50e-03
+ cj = 3.793e-04
+ cjsw= 1.529e-10
+ mj= 0.3222
+ mjsw= 0.5792
+ pb = 0.6614
+ rsh= 452.6
+ gap1= 4.73e-04
+ gap2= 6.36e+02
+ delta= 1.789
+ eta= 1.940e-02
+ kappa= 1.197
+ nfs= 5.020e+11
+ theta= 4.623e-02
+ vmax= 2.546e+05
+ xj = 4.126e-08
+ uo = 491.5
+ tref= 25.0
.endl
```



Example of Simulations Fit for (50x1.2)um NMOS Transistor

Spice Models

Notes: