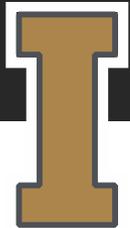


ECE 310 MICROELECTRONICS I

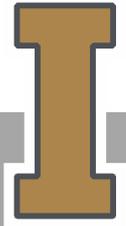
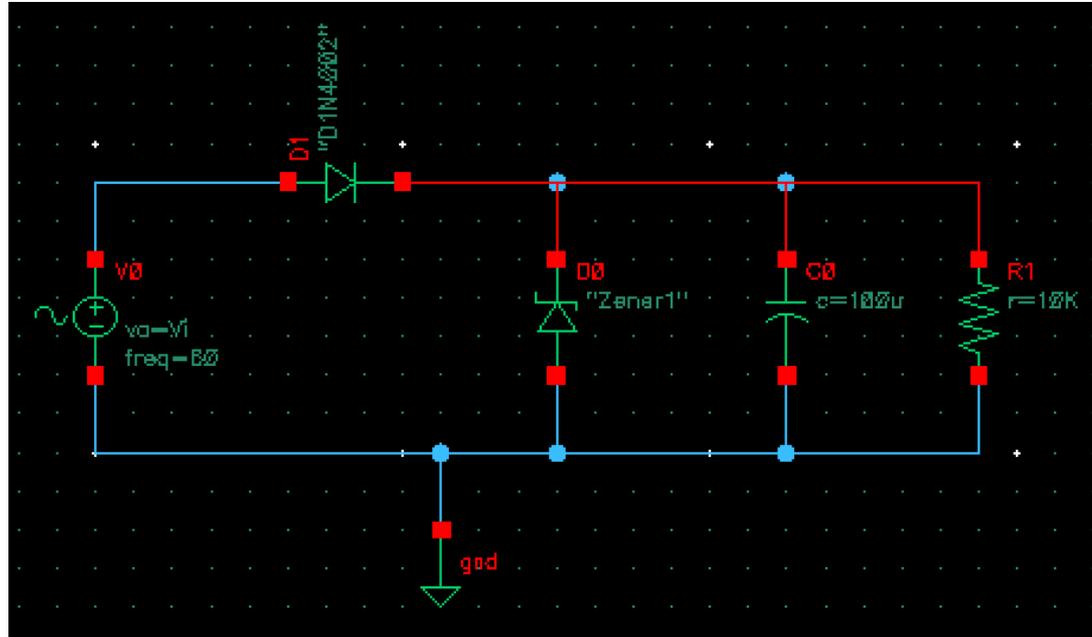
ZENER DIODE EXAMPLE

VISHAL SAXENA
VSAXENA@UIDAHO.EDU

RAFAEL AKIO ALVES WATANABE
ALVE8348@VANDALS.UIDAHO.EDU

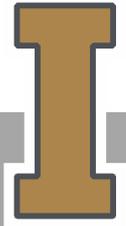
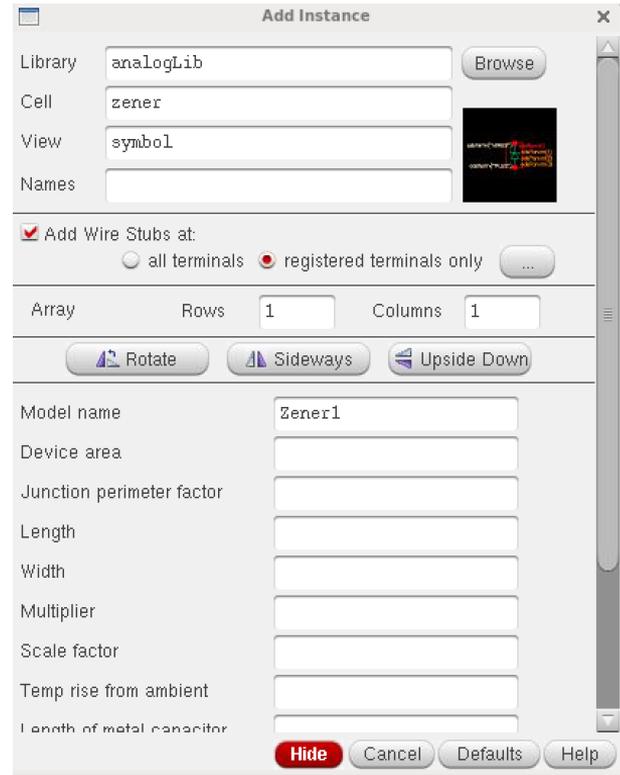


ZENER DIODE EXAMPLE



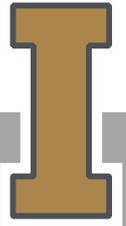
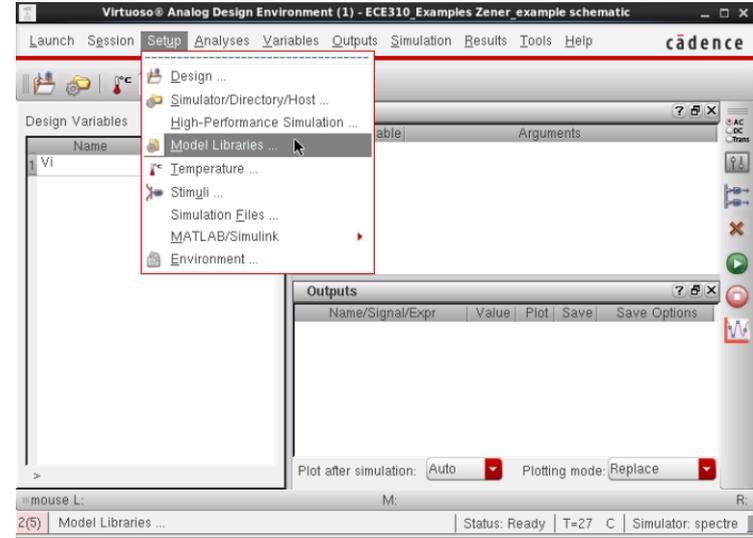
ZENER DIODE

- Select “zener” from analogLib
- Use the model name “Zener1”



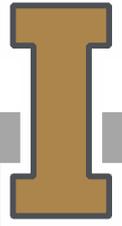
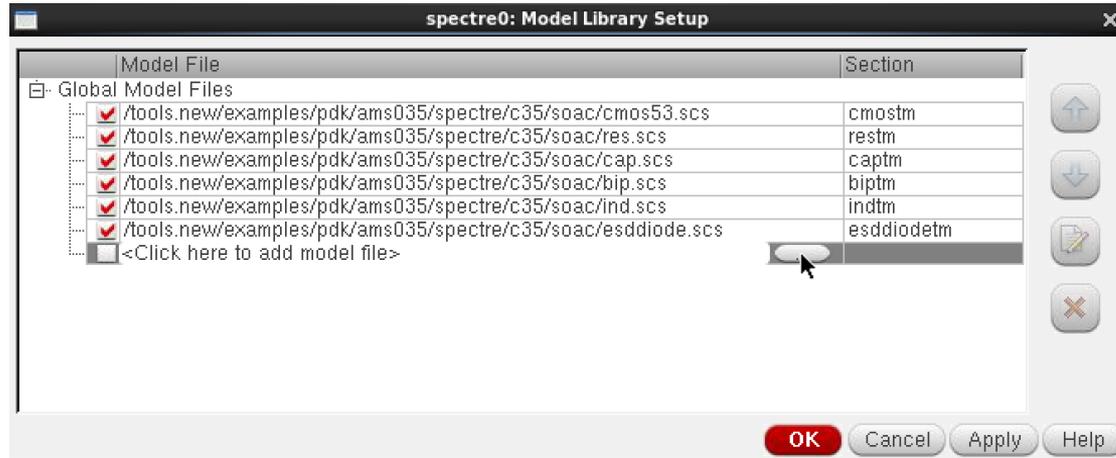
ADDING THE MODEL

- In order to add the “Zener1” model,
- go to setup and then Model Libraries in
- the ADE window.



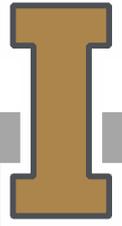
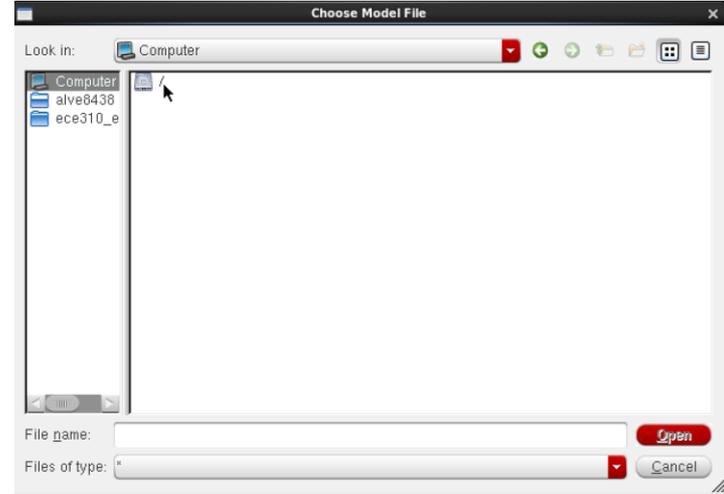
ADDING THE MODEL (CONTINUED)

- In the model library setup, select the option to add model file



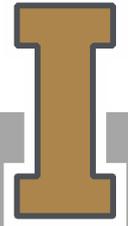
ADDING THE MODEL (CONTINUED)

- Starting from “Computer”, follow the
- path:
- /home/alve8438/ece310_examples
- and include the file “ece310.lib”.



ECE310.LIB

- The ece310.lib currently has the models for the “D1N4002” diode and “Zener1” diode. As we start using more custom components, more models will be added to this library.



RESULTS

- The output of the circuit will look like this:

