Uploading a Spice Device Model in eSim

Spoken Tutorial Project
https://spoken-tutorial.org
National Mission on Education through ICT

http://sakshat.ac.in

Gloria N

IIT Bombay

12 May 2020

Learning Objectives

In this tutorial, we will learn-

Learning Objectives

In this tutorial, we will learn-

► **To create Schottky Diode using the Upload option**

System Requirements

System Requirements

▶ **Ubuntu Linux OS version 16.04**

System Requirements

- **Ubuntu Linux OS version 16.04**
- **eSim version 2.0**

► **Create a circuit schematic and simulate the netlist file in eSim**

Prerequisites

► **Create a circuit schematic and simulate the netlist file in eSim**

► **https://spoken-tutorial.org/**

Device Models

General form: `.model mname component_type(pname=pval1 pname=pval2....)`

- ▶ `mname` indicates model name
- ▶ `component_type` is the model type
- ▶ `pname` is the parameter name and
- ▶ `pval` is the parameter value

Introduction

- The device model libraries added using Upload option will be saved in the `User Libraries`
- The model libraries are used for `eSim_Devices` components

Code File

- ▶ Download the `Schottky diode 1N5711` library file from the Code file section
- ▶ Save the file with a .lib extension

In this tutorial, we learnt to create :

▶ **Schottky Diode using Upload option**

Forum to answer questions

► **Do you have questions in this Spoken Tutorial?**

► **Choose the minute and second where you have the question.**

► **Explain your question briefly.**

► **Someone from the FOSSEE team will answer them. Please visit**

https://forums.spoken-tutorial.org/

▶ **Please post your queries on eSim in the FOSSEE forum.**
https://forums.fossee.in/

Circuit Simulation

▶ **The FOSSEE team coordinates the Circuit Simulation project.**

▶ **Contributors will receive `Certificates` and `Honorarium`.**

▶ **For more details, please visit this site: https://esim.fossee.in/circuit-simulation-project**

Lab Migration

- ► **The FOSSEE team coordinates the Lab Migration project.**

- ► **For more details, please visit this site:**
  https://esim.fossee.in/lab-migration-project

Acknowledgements

- **Spoken Tutorial Project is funded by NMEICT, MHRD, Govt. of India.**

- **For more details, visit this website.**
  https://spoken-tutorial.org/

THANK YOU!