

Semiconductor Device Modelling

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Jul 14, 2015 Semiconductor Device Modeling by Prof. S. Karmalkar, Department of Electronics & Communication Engineering, IIT Madras. For more details on NPTEL visit [http](http://www.youtube.com/playlist?list=PLbMVogVj5nJSqDpNX98GttEel31r8-R-o)

<http://www.youtube.com/playlist?list=PLbMVogVj5nJSqDpNX98GttEel31r8-R-o>

The objective of the semiconductor device modeling activity is the compact modeling of advanced semiconductor devices with a strong emphasis on the MOS transistor.

<http://iclab.epfl.ch/transistor-modeling>

MOSFETs, MESFETs, and Schottky Diodes. The Semiconductor Module allows for detailed analysis of semiconductor device operation at the fundamental physics level.

<http://www.comsol.com/semiconductor-module>

Semiconductor Device Modeling and Simulation Guest Editor: Carl L. Gardner . Guest Editorial, Carl L. Gardner Volume 10 (2000), Issue 4, Pages i-i

<http://www.hindawi.com/journals/vlsi/si/508173/>

Semiconductor Device Modeling for VLSI by Michael S Shur, Trond Ytterdal, Kwyro Lee starting at \$0.99. Semiconductor Device Modeling for VLSI has 1 available editions

<http://www.alibris.com/Semiconductor-Device-Modeling-for-VLSI-Michael-S-Shur/book/23803328>

Semiconductor devices are electronic components that exploit the electronic properties of semiconductor materials, principally silicon, germanium, and gallium

http://en.wikipedia.org/wiki/Semiconductor_device

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UGIM03.PDF. Abstract - Semiconductor Process and Device Modeling is a senior / graduate level circuit level through modifications of SPICE

<http://www.booklad.org/docid/semiconductor+device+modeling+with+spice+pdf/>

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In this paper we describe, analyse and implement a parallel iterative method for the solution of the steady-state drift diffusion equations governing the behaviour of <http://link.springer.com/article/10.1007/BF02238289>

Additional Physical Format: Online version: Semiconductor device modelling. London ; New York : Springer-Verlag, 1989 (OCOLC)555660927 Online version: <http://www.worldcat.org/title/semiconductor-device-modelling/oclc/19128398>

EE 531 Semiconductor Devices & Device Simulation Physics and Modeling of Nanoscale VLSI Devices Winter Quarter 2014 Tuesday and Thursday, 2:30-4:20pm <http://dunham.ee.washington.edu/ee531/>

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How to Cite. Polak, S. J., Den Heijer, C., Schilders, W. H. A. and Markowich, P. (1987), Semiconductor device modelling from the numerical point of view. Int. J. Numer. <http://onlinelibrary.wiley.com/doi/10.1002/nme.1620240408/citedby>

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<http://academic.research.microsoft.com/Keyword/36975/Semiconductor-Device-Modeling>

Semiconductor device modeling creates models for the behavior of the electrical devices based on fundamental physics, such as the doping profiles of the devices.

http://en.wikipedia.org/wiki/Semiconductor_device_modeling

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<http://www.ee.iitm.ac.in/2015/07/07/5313-semiconductor-device-modelling/>

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Compact Models for Power Semiconductor Devices. Latest update: January 23, 2013.

Many power semiconductor device models were developed at the University of

<http://www.ee.washington.edu/research/pemodels/>

This book describes a variety of approaches to modelling modern semiconductor devices. The text contains a review of essential device and semiconductor physics

<http://www.amazon.com/Semiconductor-Device-Modelling-Christopher-Snowden/dp/3540195459>

Semiconductor device modeling creates models for the behavior of the electrical devices based on fundamental physics, such as the doping profiles of the devices.

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