

Research Article

Zhanhan Hu*, Danaysa Macías Hernández, and Silega Nemuri Martinez

Analysis of radiation effects of semiconductor devices based on numerical simulation Fermi–Dirac

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Abstract: To study the radiation effect of Fermi–Dirac (F–D) semiconductor devices based on numerical simulation, two methods are used. One is based on the combination of F–D statistical method and computer simulation. The method discusses the influence of temperature and light energy on the carrier number by starting from an intrinsic silicon semiconductor and carries out computer simulation on the carrier number in intrinsic silicon semiconductor. TID Sim, a three-dimensional parallel solver for ionizing radiation effects of semiconductor devices, is developed. The ionization radiation damage of typical metal oxide semiconductor (MOS) FET NMOS and bipolar transistor GLPNP is simulated. It was proved that the variation trend was close to a straight line in the temperature range (278–358 K) studied in this article. The results are consistent with those of the statistical distribution of semiconductor carriers. This method is suitable for calculating the number of semiconductor carriers, and it is an effective method to study the problems related to carrier distribution.

Keywords: F–D statistical method, semiconductor, radiation effect

1 Introduction

Metal oxide semiconductor (MOS) will degrade its performance parameters when exposed to high-energy ionizing radiation; the typical phenomena are threshold voltage drift and off-state leakage current increase. This is a long-term effect; that is, the phenomenon of effect cannot be eliminated after the device is powered off [1]. The cause of the long-term radiation effect of MOS devices is the formation of trapped charges that are difficult to move in the gate oxide or isolation oxide; this makes the channel surface form an inversion or a leakage path between the source and the drain when no bias is applied. Therefore, the generation of trapped charges, the transport, and final distribution have an important influence on the long-term effect of the device [2]. The Monte Carlo method and the coupling method of the finite volume method are used to simulate the long-term radiation effect caused by the oxide trap charge in the MOS tube. Using the Monte Carlo method to track the random transport process of incident particles, the ionization energy deposition distribution can be obtained, and this distribution is coupled to the drift-diffusion model equation as a source term [3]. To discretize the governing equation using the finite volume method and solve the Poisson equation in gate oxide and silicon together, the carrier continuity equation and the trapping rate equation of gate oxide, in this way, the threshold voltage drift and off-state leakage current of a typical MOS tube after being irradiated can be calculated. Gamma irradiation is a key environmental factor that causes the performance degradation and even permanent failure of satellite electronic systems. There are two basic effects of semiconductor device ionization radiation damage: Total ionizing dose effect, that is, the damage of the device, increases cumulatively with the increase in the total radiation dose, and the enhanced low dose rate effect (enhanced low dose rate sensitivity [ELDRS] effect) [3]. That is, under the condition of a fixed total radiation dose, the damage to

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Numerical Analysis For Semiconductor Devices

N Colangelo



Numerical Analysis For Semiconductor Devices:

Numerical Analysis for Semiconductor Devices Mamoru Kurata,1982 *Numerical Analysis of Semiconductor Devices* Pascal Sweil Lin Chen,1982 **Numerical Analysis of Semiconductor Devices** John Gary Shaw,1983 Analysis and Simulation of Semiconductor Devices S. Selberherr,2012-12-06 The invention of semiconductor devices is a fairly recent one considering classical time scales in human life The bipolar transistor was announced in 1947 and the MOS transistor in a practically usable manner was demonstrated in 1960 From these beginnings the semiconductor device field has grown rapidly The first integrated circuits which contained just a few devices became commercially available in the early 1960s Immediately thereafter an evolution has taken place so that today less than 25 years later the manufacture of integrated circuits with over 400 000 devices per single chip is possible Coincident with the growth in semiconductor device development the literature concerning semiconductor device and technology issues has literally exploded In the last decade about 50 000 papers have been published on these subjects The advent of so called Very Large Scale Integration VLSI has certainly revealed the need for a better understanding of basic device behavior The miniaturization of the single transistor which is the major prerequisite for VLSI nearly led to a breakdown of the classical models of semiconductor devices

Numerical Analysis of Semiconductor Devices and Integrated Circuits B. T. Browne,John James Henry Miller,1981 An Introduction to the Numerical Analysis of Semiconductor Devices and Integrated Circuits John James Henry Miller,1981 Companion volume to NASECODE II Conference proceedings Numerical Analysis of Semiconductor Devices and Integrated Circuits J. J. H. Miller,1985 *Numerical analysis of semiconductor devices. Proceedings of the NASECODE Conference ; 8 ,1992* **Numerical Analysis of Semiconductor Devices** John J. H. Miller,1981 **Numerical analysis of semiconductor devices. Proceedings of the NASECODE Conference ; 5 ,1987** **Numerical Analysis of Semiconductor Devices** NASECODE Conference (1, 1979, Dublin),1981 *Numerical analysis of semiconductor devices. Proceedings of the NASECODE Conference ; 7 ,1991* Numerical analysis of semiconductor devices. Proceedings of the NASECODE Conference ; 9 ,1993 **Noise in Semiconductor Devices** Fabrizio Bonani,Giovanni Ghione,2013-03-09 The design and optimization of electronic systems often requires appraisal of the electrical noise generated by active devices and at a technological level the ability to properly design active elements in order to minimize when possible their noise Examples of critical applications are of course receiver front ends in RF and optoelectronic transmission systems but also front end stages in sensors and in a completely different context nonlinear circuits such as oscillators mixers and frequency multipliers The rapid development of silicon RF applications has recently fostered the interest toward low noise silicon devices for the lower microwave band such as low noise MOS transistors at the same time the RF and microwave ranges are becoming increasingly important in fast optical communication systems Thus high frequency noise modeling and simulation of both silicon and compound semiconductor based bipolar and field effect transistors can be considered as an important and

timely topic This does not exclude of course low frequency noise which is relevant also in the RF and microwave ranges when ever it is up converted within a nonlinear system either autonomous as an oscillator or non autonomous as a mixer or frequency multiplier The aim of the present book is to provide a thorough introduction to the physics based numerical modeling of semiconductor devices operating both in small signal and in large signal conditions In the latter instance only the non autonomous case was considered and thus the present treatment does not directly extend to oscillators **NASECODE**,1983 **Nasecode IV** John James Henry Miller,1985 Nasecode IX John J. H. Miller,1993-04 Numerical Analysis of Semiconductor Devices John Gary Shaw,1983 **NASECODE X** John J. H. Miller,1994 **Microscopic Numerical Analysis of Semiconductor Devices with Application to Avalnache Photodiodes** Joseph Worthy Parks (Jr.),1997

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