

Circuit And Numerical Modeling Of Electrostatic Discharge

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circuit simulator. The second model is based on the numerical solu-tion of the field equations by using the commercial numerical-code microwave studio based on the finite-integration technique. The validation of the proposed circuit and numerical models is carried out by comparison with measurements.

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Numerical modeling is at present widely used to simulate the behavior of rockmass with or without rockbolting in various geotechnical projects. The numerical methods used in modeling of geomaterials include finite element method (FEM), boundary element method (BEM), finite difference method (FDM), and discrete element method (DEM).

Numerical Modelling - an overview | ScienceDirect Topics

Numerical Modeling and Implementation in Circuit Simulator of SOI Four-gate Transistor (G4FET) Using Multidimensional Lagrange and Bernstein Polynomial- 2017 Abstract: This paper presents two efficient numerical models developed for simulating circuits containing silicon-on-insulator four-gate transistors (G 4 FET). First the

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Circuit And Numerical Modeling Of The physical circuit was made from resistors, capacitors, and operational amplifiers, and an oscilloscope was used to compare the circuit ' s state with the numerical model. The model was implemented in a program written in C and a user in-terface was created using AutoHotkey. Lecture - 6 Modelling of Circuit

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This paper deals with the application of fractional derivatives in the modeling of electrical circuits RC, RL, RLC, power electronic devices and nonlinear loads, the equations are obtained by replacing the time derivative by fractional derivatives of type Riemann–Liouville, Grünwald–Letnikov, Liouville–Caputo and the fractional definition recently introduced by Caputo and Fabrizio.

Analytical and numerical solutions of electrical circuits ...

Analytical and Numerical Modeling of the Thermal Performance of Three-Dimensional Integrated Circuits Abstract: Three-dimensional (3D) interconnection technology offers several electrical advantages, including reduced signal delay, reduced interconnect power, and design flexibility. 3D integration relies on through-silicon vias (TSVs) and the ...

Analytical and Numerical Modeling of the Thermal ...

The International Journal of Numerical Modelling: Electronic Networks, Devices and Fields provides a communication vehicle for numerical modelling methods and data preparation methods associated with electrical and electronic circuits and fields. It concentrates on numerical modelling rather than abstract numerical mathematics.

Overview - International Journal of Numerical Modelling ...

Electrical Modeling Page 1 Introduction to Electrical Systems Modeling Part I. DC analysis techniques DC analysis techniques are of course important for analyzing DC circuits—circuits that are not dynamic. But why do we discuss them in a dynamic systems class? Firstly, they provide good practice and help build intuition for circuits.

Introduction to Electrical Systems Modeling

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The first model is based on a circuit approach and is suitable to be implemented in any commercial circuit simulator. The second model is based on the numerical solution of the field equations by using the commercial numerical-code microwave studio based on the finite-integration technique. The validation of the proposed circuit and numerical models is carried out by comparison with measurements

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In pursuit of evaluating the efficiency, accuracy, and validity of the proposed method, full wave numerical modeling is performed by the finite element method. The results show that the proposed circuit approach, in addition to having advantages in terms of computing time and the need for memory resource, is in a good agreement with the full wave simulations.

Circuit modeling of ultra broadband terahertz absorber ...

The physics and modeling of devices in integrated circuits is dominated by MOS and bipolar transistor modeling. However, other devices are important, such as memory devices, that have rather different modeling requirements.

Semiconductor device modeling - Wikipedia

Today ' s most common circuit models increasingly tend to loose their validity in cir-cuit simulation due to the rapid technological developments, miniaturization and higher complexity of integrated circuits. This has motivated the idea of combining circuit simulation directly with distributed device models to re ne critical circuit parts.

Coupled Electromagnetic Field/Circuit Simulation: Modeling ...

Numerical Modeling of Piezoelectric Energy Harvesting Devices S. Ravi*, A. Zilian* * University of Luxembourg, Campus Kirchberg, 6, rue Coudenhove-Kalergi, L-1359, Luxembourg Srivathsan.ravi@uni.lu Abstract: This paper introduces a monolithic approach that provides simultaneous modeling and analysis of the coupled energy

Numerical Modeling of Piezoelectric Energy Harvesting Devices

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