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Circuit and numerical models of the ESD

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generator have been proposed and discussed. The circuit model is suitable to be implemented in any commercial circuit simulator such as SPICE. The numerical model is based on the 3D simulation by the commercial tool MWS based on the finite integration technique.

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## **Circuit and Numerical Modeling of Electrostatic ...**

Numerical models of electrical, electronic, and electromagnetic devices are generally either circuit models or full geometry field models. Circuit models contain ideal circuit components — inductors and capacitors — connected to circuit nodes.

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## **Numerical Model - an overview | ScienceDirect Topics**

This paper provides two accurate and efficient models of electrostatic discharge generators which permit to reproduce the discharge current in the contact mode, taking into account the load effect. The first model is based on a

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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 ...

## **Circuit and Numerical Modeling of Electrostatic Discharge ...**

circuit simulator. The second model is



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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.

## **Circuit and Numerical Modeling of**

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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

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flexibility. 3D integration relies on through-silicon vias (TSVs) and the ...

## **Analytical and Numerical Modeling of the Thermal ...**

Electrical Modeling Page 1 Introduction to Electrical Systems Modeling Part I. DC analysis techniques DC analysis techniques are of course important for

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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**

The model accuracy depends on the

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number of PI sections used for the model. Copy the PI Section Line block from the Simscape > Electrical > Specialized Power Systems > Fundamental Blocks > Elements library into the circuit1 window, set its parameters as shown in Circuit to Be Modeled , and specify one line section.

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## **Build and Simulate a Simple Circuit - MATLAB & Simulink**

The process optimization of the device geometries and techniques requires basic numerical multidimensional models to control the charge distribution and the carrier transport in organic semiconductors. On the other hand, there is a need for an efficient and

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accurate compact model to work as a bridge between the OTFT technology and circuit ...

## **Numerical simulation and compact modeling of low voltage ...**

6. Numerical modelling. The measurement results indicated that the contact-related part of dissipation during

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quasi-slip can be modelled as viscous damping. Moreover, we saw in Section 5 that even the numerical simulation of the monolithic structure may lead to results that adequately characterize the assembled body. Based on these experiences ...

## **Experimental analysis and**



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## **numerical modelling of contact ...**

Semiconductor device modeling creates models for the behavior of the electrical devices based on fundamental physics, such as the doping profiles of the devices. It may also include the creation of compact models (such as the well known SPICE transistor models), which try to capture the electrical behavior of

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such devices but do not generally derive them from the underlying physics.

### **Semiconductor device modeling - Wikipedia**

Large % relative errors indicate the inefficiency of this model in analyzing and describing given model of RC circuit. Since, accuracy of Numerical

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Methods depend on step size.

## **(PDF) Numerical Methods to solve differential Equations ...**

In electronics, diode modelling refers to the mathematical models used to approximate the actual behaviour of real diodes to enable calculations and circuit analysis. A diode's I-V curve is nonlinear

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(it is well described by the Shockley diode law). This nonlinearity complicates calculations in circuits involving diodes so simpler models are often required.

## **Diode modelling - Wikipedia**

High-acoustic-index-contrast phononic circuits: numerical modeling Wance Wang, 1,2 , a) Mohan Shen, 1, 2 Chang-

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Ling Zou, 1, 2 Wei F u, 1 Zhen Shen, 1, 2 and Hong X. T ang 1, b)

## **High-acoustic-index-contrast phononic circuits: numerical ...**

In pursuit of evaluating the efficiency, accuracy, and validity of the proposed method, full-wave numerical modeling is performed by the finite element method.

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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 ...**

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Numerical modeling of high-voltage circuit breaker arcs and their interaction with the power system - NASA/ADS. In this work the interaction between series connected gas and vacuum circuit breaker arcs has been studied. The breakdown phenomena in vacuum interrupters during the post arc current period have been of special interest.

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## **Numerical modeling of high-voltage circuit breaker arcs ...**

An LC circuit, also called a resonant circuit, tank circuit, or tuned circuit, is an electric circuit consisting of an inductor, represented by the letter L, and a capacitor, represented by the letter C, connected together. The circuit can act



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as an electrical resonator, an electrical analogue of a tuning fork, storing energy oscillating at the circuit's resonant frequency.

## **LC circuit - Wikipedia**

Lecture Series on Basic Electrical Technology by Prof. L.Umanand, Principal Research Scientist, Power

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Electronics Group, CEDT, IISc Bangalore  
For more detail...

## **Lecture - 6 Modelling of Circuit**

Abstract —Numerical circuit parameter extraction is widely used for modeling many kinds of high-frequency structures. In particular, parameter extraction can be used to find the optimal parameter

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values of an equivalent circuit model to match as close as possible a given target response. This paper presents a novel

## **An Objective Function Formulation for Circuit Parameter ...**

During the experiment, the flow characteristics in the U-tubes are

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complex due to the variation of the mass flow through inlet plenum. Therefore, based on the SG experimental loop, a numerical model using the system analysis code RELAP5/MOD3.3 is established to study the temperature and flow changes of the fluid, as shown in Fig. 3. The average temperature in the SG secondary side is taken as ...

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