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
Circuital and Numerical Modeling of Electrostatic ...
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 (MWS) based on the finite integration technique The validation of the proposed circuit and numerical
Introduction to Electrical Systems Modeling
Introduction to Electrical Systems Modeling Since (1) can be derived independent of the numerical values for the voltages (v1 through v4), Electrical Modeling Page 5 Fig 6 The same circuit at a different point in time, when the voltages take on different values
NUMERICAL COUPLING OF ELECTRIC CIRCUIT EQUATIONS ...
rectifier circuit with four pndiodes The numerical results from the transient energy-transport equations are compared with those from the stationary energy-transport model and from the transient drift-diffusion equations Finally, we conclude in section 5 2 Modeling In this section we explain the modeling of the electric circuits by
MACACO: Modeling and Analysis of Circuits for Approximate ...
MACACO: Modeling and Analysis of Circuits for Approximate Computing Rangharajan Venkatesan, Amit Agarwal, Kaushik Roy and Anand Raghunathan School of Electrical and Computer Engineering, Purdue University frvenkate,agarwa19,kaushik,raghunathang@purdueedu Abstract—Approximate computing, which refers to a class of tech-

Lithium ion Battery Electro thermal Model and Its ...

Application in the Numerical Simulation of Short Circuit Experiment Chengtao Lin1, Can Cui2, Xiaotian Xu3 1The State Key Laboratory of Automotive Safety and Energy , Tsinghua University Beijing, China 100084,lct@tsinghuaeducn Abstract As a key issue in EVs (Electric Vehicles) development, Li-ion battery's thermal safety is focused on in

Modeling of Battery Life I. The Equivalent Circuit Model ...

sensible, concurrent approach using several types of numerical models to predict battery life via simulation In this paper, we discuss how the equivalent-circuit model can be used in simulating battery performance, particularly the capacity change with cycling and aging conditions, to predict its cycle and calendar life We are proceeding with

Artificial Neural Network for Performance Modeling and ...

applications and modeling methods[5] An analog system is typically characterized by a set of performance parameters used to succinctly quantify the properties of the circuit given fixed topology; circuit synthesis is the process of determining numerical values for all components in the circuit such that

Lumped-element Modeling with Equivalent Circuits

>One modeling approach • Use circuits for electrical domain »Solve via KCL, KVL • Use mechanical lumped elements in mechanical domain »Solve via Newton's laws • Connect two using ODEs or matrices or other representation >Our approach • Lumped elements have electrical equivalents • Can hook them together such that solving circuit

Fault Modeling - University of Michigan

F 2002 EECS 579: Digital Testing 1 Fault Modeling Why model faults? Some real defects in VLSI and PCB Common fault models Stuck-at faults Single stuck-at faults Fault equivalence Fault dominance and checkpoint theorem Classes of stuck-at faults and multiple faults Transistor faults Summary

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The Development and Numerical Modeling of a Chua Circuit ...

The Development and Numerical Modeling of a Chua Circuit as a Pedagogical Tool Trent Ziemer The Physics Department at the College of Wooster, Wooster, OH, 44691, USA (Dated: December 10, 2014) The electrical circuit created by and named for Leon Chua was constructed using discrete com-ponents and then compared with two computational models

Overview of Electromagnetic Modeling Software

Overview of Electromagnetic Modeling Software Changyi Su, Haixin Ke, Todd Hubing Department of Electrical and Computer Engineering Clemson University, SC 28634, USA csu@clemsonedu , hxkeucl@clemsonedu , hubing@clemsonedu Abstract: Computational electromagnetic modeling (CEM) software is widely used to model antennas,

Numerical Modeling of Flow-Driven Piezoelectric Energy ...

Numerical Modeling of Flow-Driven Piezoelectric Energy Harvesting Devices 5 dent variation of the resonance frequency and amplification of the

motion at open- circuit frequencyare indicatorsforthe need forbetter representationof the effect of

Numerical modeling of post current-zero dielectric ...

Numerical modeling of post current-zero dielectric breakdown in a low voltage circuit breaker A DISSERTATION SUBMITTED TO THE FACULTY OF THE GRADUATE SCHOOL OF THE UNIVERSITY OF MINNESOTA BY Venkat raman Thenkarai Narayanan IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF Doctor of Philosophy Prof Uwe Kortshagen March, 2014

NUMERICAL ANALYSIS, DESIGN AND TWO PORT ...

Approval of the thesis: NUMERICAL ANALYSIS, DESIGN AND TWO PORT EQUIVALENT CIRCUIT MODELS FOR SPLIT RING RESONATOR ARRAYS submitted by PINAR YAŞAR ÖRTEN in partial fulfillment of the requirements for the degree of Master of Science in Electrical and Electronics Engineering Department, Middle East Technical University by, Prof Dr Canan Özgen

Numerical Calibration and De-embedding Techniques for CAD ...

Numerical Calibration and De-embedding Techniques for CAD and Equivalent Circuit Models of Electromagnetic Structures Ke Wu, Lin Li Abstract --- The numerical calibration and de-embedding techniques used in the planar electromagnetic (EM) simulation are reviewed These techniques are used to eliminate the port

Open Access Experimental Investigation and Numerical ...

Experimental Investigation and Numerical Modeling of Surge Currents Journal of Lightning Research, 2012, Volume 4 19 about 61 m apart and were connected by a buried horizontal conductor In the middle of the north side of the Test House there was another ground rod, the power supply system ground rod, connected by a buried horizontal conductor

3D PIC-MCC simulation of corona discharge in needle-plate ...

3D PIC-MCC simulation of corona discharge in needle-plate electrode with external circuit Ming Jiang1, Yongdong LI1, Hongguang Wang1, Weidong Ding2 and Chunliang Liu1 1Key Laboratory for Physical Electronics and Devices of the Ministry of Education, Xi'an …

Learning About Theory and EM Modeling Analyzing Printed ...

Normally, currents in the circuit are calculated using transmission line or circuit theory and the enclosure is ignored As an example of how students can use numerical modeling techniques to help develop a level 3 understanding of a basic field problem, the structure in Figure 1 was analyzed using the EMAP finite element modeling code fl]