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The aim of this book is to provide the needed basic knowledge to use the Matlab-Simulink software on a computer to simulate the modeling and optimization of a single-phase high voltage power supply for industrial microwave generators with N magnetrons 800 Watts-2450 MHz (treated cases N = 1 and N = 2).

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Power Supplies Of Magnetrons: Modeling, Simulation And Optimization, 978-3-659-39591-8, 9783659395918, 3659395919, Electronics, electro-technology, communications technology , The aim of this

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power supply for N = 2 magnetrons using the tool Matlab-Simulink. The paper is organized as follows: Firstly, we discuss the modeling of the single-phase power supply currently used in the microwave generators. The modeling with Matlab-Simulink uses the power supply of the model developed by Mr. Chraygane of the transformer which is a π quadruple. The results will be compared with those

New Simulation Method of New HV Power Supply for ...

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This original work treats the modeling of a new type of HV power supply with several magnetrons (treated case N=3 magnetrons).The design of this new power supply uses a new single-phase high voltage transformer with magnetic shunts supplying three doublersvoltagecells, each one composed of a capacitor and a diode.

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power supply is as shown Fig 3.1. Fig.3.1: Block diagram of the power supply design for magnetron 3.1.1 Power supply card Input to the power supply card is three phase 220vac and it converts AC to DC supplies the necessary power 5v,+12v,-12v to the control card. 3.1.2 Control card Output of the power supply card is given to the control card to provide the proper supply to the

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Microwave Power Supply

The cavity magnetron is a high-powered vacuum tube that generates microwaves using the interaction of a stream of electrons with a magnetic field while moving past a series of open metal cavities (cavity resonators).Electrons pass by the openings to these cavities and cause microwaves to oscillate within, similar to the way a whistle produces a tone when excited by an air stream blown past its ...

Cavity magnetron - Wikipedia

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This original work treats the modeling of a new type of HV power supply with several magnetrons (treated case N=3 magnetrons).The design of this new power supply uses a new single-phase high voltage transformer with magnetic shunts supplying three doublers voltage cells, each one composed of a capacitor and a diode.

Modeling of a New Single-Phase High Voltage Power Supply ...

used in this kind of power supplies with nine magnetrons (three for each phase). Unlike the old power supplies already developed, whether single-phase magnetron 800Watts-2450Mhz or three-phase of three magnetrons 2400Whats-2450Mhz [1-3]. This new technology of nine magnetrons is optimized compared to that previously developed [4].

The aim of this book is to provide the needed basic knowledge to use the Matlab-Simulink software on a computer to simulate the modeling and optimization of a single-phase high voltage power supply for industrial microwave generators with N magnetrons 800 Watts-2450 MHz (treated cases N = 1 and N = 2). This original work will contribute to develop of research in the field of manufacturing technology of current single-phase power supplies, three-phase and future hexa-phase with the aim to keep the operating performance of these systems and obtain the following benefits: Reduction in the cost of producing the installation of the HV power supplies for magnetrons. Decrease the congestion, volume and cost of maintenance of these installations.

The high voltage power supply for magnetron, used for the modular microwave generators in industrial applications, is a classical design. This system is composed of a single-phase high voltage transformer with shunts supplying a cell, composed of a capacitor and a diode, which doubles the voltage and stabilizes the current. In this case, the leakage fluxes in the magnetic shunts are of the same order in the primary and the secondary fluxes. In this work, a quadruple model of this leakage transformer is developed taking account the saturation phenomena and the stabilization of the magnetron current. From the model of the transformer we will define a strategy of optimization aims at restricting the study of the effect of simultaneous variation of pertinent parameters on the magnetron current. This will lead to find an optimized solution of the transformer. The later, with reduced volume, weight, and therefore cost, will make the power supply more economical.

This work develops in detail the modeling of a new generation of single-phase power supply for several magnetrons. The proposed study involves in the first step a modeling of a current high voltage single phase power supply for industrial microwaves generators with only one magnetron, the second step treats a new modeling of a new single phase high voltage power supply for industrial microwaves generators with two magnetrons. After, the third step develops the last same new modeling but in this time for a new single phase high voltage power supply for industrial microwaves generators with three magnetrons. In each power supply for each steps mentioned above, we treat the dimensioning of its new transformer with shunts from its modeling, the check of the process regulation of the current in each magnetron, and the study of the breakdown of magnetrons.

High Power Impulse Magnetron Sputtering: Fundamentals, Technologies, Challenges and Applications is an in-depth introduction to HiPIMS that emphasizes how this novel sputtering technique differs from conventional magnetron processes in terms of both discharge physics and the resulting thin film characteristics. Ionization of sputtered atoms is discussed in detail for various target materials. In addition, the role of self-sputtering, secondary electron emission and the importance of controlling the process gas dynamics, both inert and reactive gases, are examined in detail with an aim to generate stable HiPIMS processes. Lastly, the book also looks at how to characterize the HiPIMS discharge, including essential diagnostic equipment. Experimental results and simulations based on industrially relevant material systems are used to illustrate mechanisms controlling nucleation kinetics, column formation and microstructure evolution. Includes a comprehensive description of the HiPIMS process from fundamental physics to applications Provides a distinctive link between the process plasma and thin film communities Discusses the industrialization of HiPIMS and its real world applications

Do you design and build vacuum electron devices, or work with the systems that use them? Quickly develop a solid understanding of how these devices work with this authoritative guide, written by an author with over fifty years of experience in the field. Rigorous in its approach, it focuses on the theory and design of commercially significant types of gridded, linear-beam, crossed-field and fast-wave tubes. Essential components such as waveguides, resonators, slow-wave structures, electron guns, beams, magnets and collectors are also covered, as well as the integration and reliable operation of devices in microwave and RF systems. Complex mathematical analysis is kept to a minimum, and Mathcad worksheets supporting the book online aid understanding of key concepts and connect the theory with practice. Including coverage of primary sources and current research trends, this is essential reading for researchers, practitioners and graduate students working on vacuum electron devices.

Written by international experts from industry, research centers, and academia, Mathematical Modeling of Food Processing discusses the physical and mathematical analysis of transport phenomena associated with food processing. The models presented describe many of the important physical and biological transformations that occur in food during proces

Physics of Thin Films is one of the longest running continuing series in thin film science, consisting of 25 volumes since 1963. The series contains quality studies of the properties of various thin films materials and systems. In order to be able to reflect the development of today's science and to cover all modern aspects of thin films, the series, starting with Volume 20, has moved beyond the basic physics of thin films. It now addresses the most important aspects of both inorganic and organic thin films, in both their theoretical as well as technological aspects. Therefore, in order to reflect the modern technology-oriented problems, the title has been slightly modified from Physics of Thin Films to Thin Films. This volume, part of the Thin Films Series, has been wholly written by two authors instead of showcasing several edited manuscripts.

Carbon Nanomaterials: Modeling, Design, and Applications provides an in-depth review and analysis of the most popular carbon nanomaterials, including fullerenes, carbon nanotubes, graphene and novel carbon nanomaterial-based membranes and thin films, with emphasis on their modeling, design and applications. This book provides basic knowledge of the structures, properties and applications of carbon-based nanomaterials. It illustrates the fundamental structure-property relationships of the materials in both experimental and modeling aspects, offers technical guidance in computational simulation of nanomaterials, and delivers an extensive view on current achievements in research and practice, while presenting new possibilities in the design and usage of carbon nanomaterials. This book is aimed at both undergraduate and graduate students, researchers, designers, professors, and professionals within the fields of materials science and engineering, mechanical engineering, applied physics, and chemical engineering.

This book deals with the EM analysis of closed microwave cavities based on a three-dimensional FDTD method. The EM analysis is carried out for (i) rectangular microwave ovens and (ii) hybrid-cylindrical microwave autoclaves at 2.45 GHz. The field distribution is first estimated inside domestic rectangular ovens in xy-, yz-, and zx-plane. Further, the RF leakage from the oven door is determined to study the effect of leakage radiation on wireless communication at 2.45 GHz. Furthermore, the EM analysis of the autoclave is carried out based on 3D FDTD using staircase approximation. In order to show the capability of autoclaves (excited with five source) for curing the aerospace components and materials, the field distribution inside autoclave cavity is studied in presence of aerospace samples. The FDTD based modelling of oven and autoclave are explained with the appropriate expressions and illustrations.

The first overview of this topic begins with some historical aspects and a survey of the principles of the gas aggregation method. The second part covers modifications of this method resulting in different specialized techniques, while the third discusses the post-growth treatment that can be applied to the nanoparticles. The

whole is rounded off by a review of future perspectives and the challenges facing the scientific and industrial communities. An excellent resource for anyone working with the synthesis of nanoparticles, both in academia and industry.