

Power Supplies Of Magnetrons Modeling Simulation And Optimization User Guide Of The Code Matlab Simulink To Treat The Modeling Of A Hv Power Supplies For Industrial Micro Wave Generators

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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

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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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~~Micro Wave 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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used in this kind of power supplies with nine magnetrons (three for each phase). Unlike the old power supplies already

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