

Abstracts

A New Microwave Power Source and Its Application

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We present here a new 2450 MHz power source in which the anode current of the magnetron can be linearly controlled. The tube is powered by a constant high voltage DC power supply and controlled by a current source circuit. Accurate control of the output power and the produced temperature in various medical applications can be realized by the modern control technologies, such as fuzzy control, robust control and adaptive control etc., through a computer system with a D/A converter. The applications to medical treatments and accurate moisture measurements are discussed.

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