THE JOSEPHSON JUNCTION EXCITATION SYSTEM IN A SURFACE WAVE RESONATOR

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S u m m a r y

A new method of Josephson junction array (JJA) excitation is proposed. This method is based on the embedding of a JJA in a surface wave resonator (SWR). The theoretical analysis of the SWR has been made for a parallel plate transmission line model with the single-wave approximation. A supposition of equal Josephson junction excitation terms in that system has been made.