



plasma



Article

Radial Kick in High-Efficiency Output Structures

Huang Hua ¹ and Levi Schächter ^{2,*}

¹ Science and Technology on High Power Microwave Laboratory, Institute of Applied Electronics, China Academy of Engineering Physics, Mianyang 621900, China; hhua0457@163.com

² Department of Electrical Engineering, Technion—Israel Institute of Technology, Haifa 32000, Israel

* Correspondence: levis@technion.ac.il

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Abstract: We have developed an analytical approach that predicts radial oscillation near the aperture of a pillbox cavity. In addition, it provides natural criteria for the design of a tapered guiding magnetic field in the output section of a relativistic klystron amplifier, as well as that of a travelling wave tube, in a method that is self-consistent with the dynamics of the electrons.

Keywords: microwave; klystron; quasi-periodic; amplifier
