Abstracts

The RF Drive System for the Stanford Two-Mile Linear Accelerator

G.A. Loew. "The RF Drive System for the Stanford Two-Mile Linear Accelerator." 1966 G-MTT International Microwave Symposium Digest 66.1 (1966 [MWSYM]): 67-68.

The function of the rf drive system for the Stanford Two-Mile Linear Accelerator is to supply rf drive power at 2856 MHz to an array of 240 high power (24 mw) klystron amplifiers and to assure that the correct phase relationship between each of these drive signals and the electron bunches in the accelerator is preserved over a tuning range of ±0.1 mhz. This paper gives an overall description of the system which fulfills these requirements, and discusses some of the microwave engineering and measurement problems encountered in its design.

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