Abstracts

Wave-beam shaping using multiple phase-correction mirrors

Y. Hirata, Y. Mitsunaka, K. Hayashi and Y. Itoh. "Wave-beam shaping using multiple phase-correction mirrors." 1997 Transactions on Microwave Theory and Techniques 45.1 (Jan. 1997 [T-MTT]): 72-77.

This paper describes a scheme for shaping a given wave beam into the desired profile using multiple phase-correction mirrors. This mirror system was applied to a gyrotron internal converter to flatten the radiated beam profile at the window. The flat output beam is reconverted into HE11 mode, a basic propagation mode for corrugated waveguides, by another pair of phase-correction mirrors for transmission into a fusion reactor. In addition, a wave-beam splitting and combining technique is also presented.

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