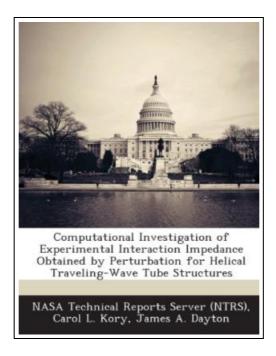
Computational Investigation of Experimental Interaction Impedance Obtained by Perturbation for Helical Traveling-Wave Tube Structures



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Reviews

This publication is fantastic. We have read through and i am certain that i will planning to read yet again yet again down the road. You wont feel monotony at at any time of your respective time (that's what catalogs are for concerning when you request me). (Alec Langosh)

COMPUTATIONAL INVESTIGATION OF EXPERIMENTAL INTERACTION IMPEDANCE OBTAINED BY PERTURBATION FOR HELICAL TRAVELING-WAVE TUBE STRUCTURES



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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 36 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.Conventional methods used to measure the cold-test interaction impedance of helical slow-wave structures involve perturbing a helical circuit with a cylindrical dielectric rod placed on the central axis of the circuit. It has been shown that the difference in resonant frequency or axial phase shift between the perturbed and unperturbed circuits can be related to the interaction impedance. However, because of the complex configuration of the helical circuit, deriving this relationship involves-several approximations. With the advent of accurate three- dimensional helical circuit models, these standard approximations can be fully investigated. This paper addresses the most prominent approximations made in the analysis for measured interaction impedance by Lagerstrom and investigates their accuracy using the three-dimensional simulation code MAFIA. It is shown that a more accurate value of interaction impedance can be obtained by using three-dimensional computational methods rather than performing costly and time consuming experimental cold-test measurements. This item ships from La Vergne, TN. Paperback.

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