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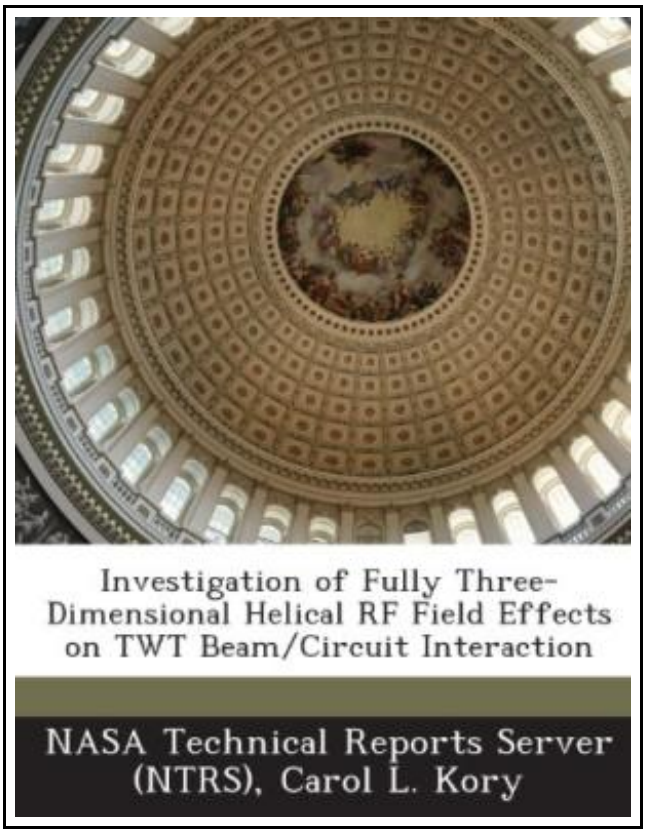

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INVESTIGATION OF FULLY THREE-DIMENSIONAL HELICAL RF FIELD EFFECTS ON TWT BEAMCIRCUIT INTERACTION

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Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.A fully three-dimensional (3D), time-dependent, helical traveling wave-tube (TWT) interaction model has been developed using the electromagnetic particle-in-cell (PIC) code MAFIA. The model includes a short section of helical slow-wave circuit with excitation fed by RF inputoutput couplers, and electron beam contained by periodic permanent magnet (PPM) focusing. All components of the model are simulated in three dimensions allowing the effects of the fully 3D helical fields on RF circuitbeam interaction to be investigated for the first time. The development of the interaction model is presented, and predicted TWT performance using 2. 5D and 3D models is compared to investigate the effect of conventional approximations used in TWT analyses. This item ships from La Vergne,TN. Paperback.

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