

Abstracts

Computer Aided Modelling of a Multidielectric Structure and its Application to the Design of Overlay Couplers

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A computer model of a multi-dielectric multi-conductor system has been developed. The solution of the field equations of the system has yielded a powerful computer aided design tool suitable for use in the design of microstrip based overlay couplers. The method of analysis of the system is presented together with theoretical predictions of the performance of overlay couplers. Encouraging comparisons have been made between a set of previously measured results and the theoretical performance predicted using this method.

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