Abstracts

Description and Development of a SAW Filter CAD System

S.M. Richie, B.P. Abbott and D.C. Malocha. "Description and Development of a SAW Filter CAD System." 1988 Transactions on Microwave Theory and Techniques 36.2 (Feb. 1988 [T-MTT] (Special Issue on Computer-Aided Design)): 456-466.

This paper will present a description of the appropriate device models, design methods, and analysis techniques for a real-time surface acoustic wave (SAW) computer-aided design (CAD) system. The approaches presented have been successfully implemented in the creation of a fully integrated SAW filter CAD system for the design of bidirectional and three-phase unidirectional filters on a DEC VAX 11/750 system and for the design of bidirectional filters on an IBM PC-AT computer, which acts as an independent workstation. The focus of this paper will be on bidirectional transducer design and analysis using the PC-based computer system. CAD analysis of a SAW bidirectional filter will be compared to measured parameters.

❑ Return to main document.