

# Abstracts

## Solution of Large, Sparse Systems in Design and Analysis

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A. Wexler, J.A. Dobrowalski and A.E. Hammad. "Solution of Large, Sparse Systems in Design and Analysis." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 202-203.

Presents some basic principles of the solution of large systems of simultaneous linear equations by sparsity methods, particularly Zollenkopf's bifactorisation method, and describes diakoptics (Gabriel Kron's method of tearing). Implications of these two approaches, used together, are discussed with particular reference to system optimization and finite-element analysis of nonlinear and large problems.

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