Abstracts

Computer aided engineering environment for spatial power combining systems

F. Nusseibeh, T.W. Nuteson, J. Patwardhan, M.A. Summers, C.E. Christoffersen, J. Kreskovsky and M.B. Steer. "Computer aided engineering environment for spatial power combining systems." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 1073-1077.

Development of a computer aided engineering environment that supports the design of spatial power combining systems is proposed. A complete integrated thermal/electromagnetic/circuit simulation capability using a mix of commercially available tools from various vendors will be compatible to the new tools being developed for spatial power combining systems. This paper focuses on and presents results for the electromagnetic field analysis, harmonic balance analysis, and rapid transient analysis part of the design environment. Also the integration of commercially available software is used to define the geometry layouts of the structures analyzed in this paper.

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