

Abstracts

Fast prediction of the performance of wireless links by simulation-trained neural networks

A. Neri, C. Cecchetti and A. Lipparini. "Fast prediction of the performance of wireless links by simulation-trained neural networks." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 429-432.

The paper illustrates a technique for fast and accurate prediction of the performance of wireless links while taking into account the nonlinear distortions in the RF/microwave sections. Each simulation is partly carried out by modulation-oriented harmonic balance, and the results are used to generate a specialized neural network which efficiently performs the major part of the task. High accuracy is obtained, and dynamic behavior of wideband modulating signals can easily be included.

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