Abstracts

Use of Redundant Testing Functions in Moment-Method Solutions for Block Models

S. Caorsi, G.L. Gragnani and M. Pastorino. "Use of Redundant Testing Functions in Moment-Method Solutions for Block Models." 1993 Transactions on Microwave Theory and Techniques 41.2 (Feb. 1993 [T-MTT]): 305-310.

An overconstrained version of the method of moments for SAR evaluation in biological bodies is presented. A number of testing functions larger than the one of basis functions is used in order to better constrain the solution near corners and edges. A rectangular system is obtained that is solved by means of a pseudoinversion algorithm. Comparisons with results reported in the literature are made, showing an enhancement of the MoM capabilities in SAR calculations, without a consistent increase in computational requirements.

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