Abstracts

Fast-Fourier-Transform Method for Calculation of SAR Distributions in Finely Discretized Inhomogeneous Models of Biological Bodies (Comments)

A. Taflove and K.R. Umashankar. "Fast-Fourier-Transform Method for Calculation of SAR Distributions in Finely Discretized Inhomogeneous Models of Biological Bodies (Comments)." 1985 Transactions on Microwave Theory and Techniques 33.4 (Apr. 1985 [T-MTT]): 345-346.

In the above paper, Borup and Gandhi state in their Section IV that, in addition to their FFT method, "Thus far, the only technique available to compute SAR distributions for models of man is the method of moments (MOM)." In this letter, we would like to point out that there exists a viable alternative numerical approach which has been the subject of intense research and numerous publications over the past ten years. In fact, some nine years ago, an article in the same MTT Transactions discussed the application of this approach to a three-dimensional tissue geometry having 14 079 space cells for purposes of computing the SAR distribution as well as the induced temperatures.

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