

Abstracts

Calculation of High-Resolution SAR Distributions in Biological Bodies Using the FFT Algorithm and Conjugate Gradient Method (Short Papers)

D.T. Borup and O.P. Gandhi. "Calculation of High-Resolution SAR Distributions in Biological Bodies Using the FFT Algorithm and Conjugate Gradient Method (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.5 (May 1985 [T-MTT]): 417-419.

A new method for the calculation of absorption in inhomogeneous, lossy dielectrics is presented. In this method, the convolutional nature of the electric-field integral equation is exploited by use of the FFT algorithms and the conjugate gradient method (CGM). The method is illustrated by solving for the SAR distribution for an anatomical cross transsection through the human eyes at 1 GHz.

[Return to main document.](#)

Click on title for a complete paper.