Abstracts

Internal EM Field and Absorbed Power Density in Human Torsos Induced by 1-500-MHz EM Waves

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Numerical results on the internal electromagnetic (EM) field and absorbed power density inside a human torso induced by EM waves of frequencies ranging from 1 to 500 MHz and of both vertical and horizontal polarizations are presented. The induced fields inside the torso are shown to be dependent on the frequency and the torso geometry. Theoretical results are obtained based on the tensor integral equation method and some theoretical predictions are compared to existing experimental results.

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