

Abstracts

Evaluation of the power absorbed in a human head model exposed to cellular phones equipped with helical antennas

P. Bernardi, M. Cavagnaro, S. Pisa and E. Piuzzi. "Evaluation of the power absorbed in a human head model exposed to cellular phones equipped with helical antennas." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1021-1024.

The power deposition inside the head, due to phones equipped with helical antennas, has been computed developing an FDTD code with a graded mesh. Both radiating properties of the phone (radiation impedance, radiation pattern, etc) and power absorption in an anatomical model of the human head have been evaluated for three different types of cellular phones.

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