Abstracts

Specific Absorption Rate Distribution in a Model of Man at Various Polarizations

A. Kraszewski, M.A. Stuchly, S.S. Stuchly and G. Hartsgrove. "Specific Absorption Rate Distribution in a Model of Man at Various Polarizations." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 142-144.

A computer-based scanning system and implantable electric field probes were used to obtain maps of the specific absorption rate (SAR) in various cross-sections of a full-scale model of the human body. The model was exposed to a plane-wave at 350 MHz at E and k polarizations with respect to the body. Enhanced absorption in the neck and the limbs, as previously found by the thermographic method, was observed. Significant differences between the SAR distribution and the SAR values calculated using the block model and those found in this work were observed.

❑ Return to main document.