

# Abstracts

## A Large Waveguide Applicator for Deep Regional Hyperthermia

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S. Mizushina, Y. Xiang and T. Sugiura. "A Large Waveguide Applicator for Deep Regional Hyperthermia." 1986 *Transactions on Microwave Theory and Techniques* 34.5 (May 1986 [T-MTT] (Special Issue on Phased Arrays for Hyperthermia Treatment of Cancer)): 644-648.

A large waveguide applicator is proposed for deep regional hyperthermia, where a part of a patient's body is exposed to the TE<sub>10</sub> -mode waves in the rectangular waveguide through the holes made to fit the body cross section in the broad walls. The electric field and the specific absorption rate distribution produced by the applicator in a realistic model of a human body cross section calculated by a two-dimensional (2-D) numerical method are given.

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