

Abstracts

A Basic Study on Simultaneous Heating with Microwaves and Ultrasound Using Coaxial Type Applicator

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A new heating method for hyperthermia using microwave and ultrasound simultaneously is proposed, and temperature distributions are obtained by computer simulations. The results have shown that the simultaneous use of microwave and ultrasound can heat wider and deeper region than the sole use, and can reduce the input power of microwave and ultrasound. This implies that we can reduce the hazards that high power microwave and ultrasound may bring about.

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