Abstracts

Time-Dependent Microwave Heating and Surface Cooling of Simulated Living Tissues

F. Bardati. "Time-Dependent Microwave Heating and Surface Cooling of Simulated Living Tissues." 1981 Transactions on Microwave Theory and Techniques 29.8 (Aug. 1981 [T-MTT]): 825-828.

The equation of conduction of heat in a model of living tissues is solved in the case of time-dependent electromagnetic heating and surface cooling. This approach allows thermal transient phenomena in the tissue to be treated as the dynamic behavior of a linear infinite-dimension system. This approach is appropriate when the tissue temperature increase must he controlled. Some results are given in a numerical simulation.

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