

# Abstracts

## Antenna: The Critical Element in Successful Medical Technology

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K.L. Carr. "Antenna: The Critical Element in Successful Medical Technology." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. 1 [MWSYM]): 525-527.

Developments in the application of microwave technology to the solution of medical problems, particularly the detection and treatment of cancer, have been very encouraging. In the development of cancer, for example, microwave hyperthermia has been accepted as an adjunctive procedure to radiation therapy in the treatment of superficial lesions. While not so widely reported, the use of microwave radiometry as a noninvasive passive technique for early detection of cancer appears very promising. Wider acceptance of these methods, however, awaits fundamental, improvements in the ability to focus energy at depth in human tissue -- an important and nontrivial antenna problem. Further development in the areas of antennas and antenna arrays is required if microwave technology is to provide a practical solution to the detection and treatment of cancer.

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