

Abstracts

Foreword (May 1986 [T-MTT])

J.C. Lin. "Foreword (May 1986 [T-MTT])." 1986 *Transactions on Microwave Theory and Techniques* 34.5 (May 1986 [T-MTT] (Special Issue on Phased Arrays for Hyperthermia Treatment of Cancer)): 481-483.

Hyperthermia cancer therapy is a treatment procedure in which tumor temperatures are elevated to the range of 43-50°C. Experiments performed on cell cultures, tumor-bearing animals, and human patients have clearly shown that hyperthermia affords preferential killing of malignant cells. It is noteworthy that while tumor cells exhibit inherent hyperthermic sensitivity, the response may also depend on such conditions as nutritional deprivation, low pH, and chronic hypoxia that often characterize the interior of many tumors. Moreover, it has been shown that the cytotoxic effects of many anticancer drugs are enhanced and the cell-killing ability of ionizing irradiation is potentiated by hyperthermia.

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