Abstracts

Field Simulation of Applicators for Interstitial Microwave Hyperthermia

G. Schaller, J. Erb, R. Engelbrecht and H.M. Seegenschmiedt. "Field Simulation of Applicators for Interstitial Microwave Hyperthermia." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 307-310.

The electromagnetic field near clinically applied coaxial microwave applicators for interstitial hyperthermia is calculated using a finite integration algorithm program. Simulations of E-field and SAR distributions of different conventional applicators in a muscle phantom are presented and compared with measurements. The applied calculation method allows also design optimization and improvement of more sophisticated applicator types, e.g. those using a triaxial technique.

❑ Return to main document.