



Cancer Treatment by Electromagnetic Radiators

By Imtiaz, Azeem

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Ultra Wide Band Circular Antenna Array for Microwave Hyperthermia | At present, The treatment of tumors is a big issue by applying traditional methods and resources. Traditional approaches are either very expensive or inefficient or may be both. To cope up with the challenges in cancer treatment, every year millions of dollars are invested. sincere efforts are being made to innovate or improve the existing methods in oncology sector. in this book, treatment of cancer by electromagnetic radiations is introduced. this method not only gives extraordinary performance but is quite inexpensive. in this book a system of Ultra wide Band Antenna Array is designed with cost-efficient commercially available components. this system has the ability to achieve the focused beam at the exact tumor location by providing good level of SAR distribution inside muscle phantom to heat up the tumor. By using the designed system of microstrip patch antennas, it is now possible to treat small, medium and large sized tumors deeply seated inside head and neck of human body. Biomedical research institutions, cancer hospitals and the RF sectors, where beam focusing, less reflections and good SAR distribution is a requirement, can be benefited greatly by...



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