

Physics and Technology of Hyperthermia



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Reviews

*This type of ebook is everything and helped me looking forward and a lot more. It is actually full of wisdom and knowledge I realized this book from my dad and i suggested this book to discover.
(Estelle Grady Sr.)*

PHYSICS AND TECHNOLOGY OF HYPERTHERMIA



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Springer Mrz 1987, 1987. Buch. Book Condition: Neu. 254x178x42 mm. This item is printed on demand - Print on Demand Titel. Neuware - In the 1960s a firm rationale was developed for using raised temperatures to treat malignant disease and there has been a continuous expansion of the field ever since. However, a major limitation exists in our ability to heat human tumours, especially those sited deep in the body, with a reasonable degree of temperature uniformity. This problem has resulted in engineers and physicists collaborating closely with biologists and clinicians towards the common goal of developing and testing the clinical potential of this exciting treatment modality. The aim of the physicist and engineer is to develop acceptable methods of heating tumour masses in as many sites as possible to therapeutic temperatures avoiding excessive heating of normal structures and, at the same time, obtaining the temperature distribution throughout the heated volume. The problem is magnified by both the theoretical and technical limitations of heating methods and devices. Moreover, the modelling of external deposition of energy in tissue and knowledge of tissue perfusion are ill-defined. To this must be added the conceptual difficulty of defining a thermal dose. The NATO course was designed to provide a basis for the integration of physics and technology relevant to the development of hyperthermia. There were 48 lectures covering the theoretical and practical aspects of system design and assessment, including, as far as possible, all the techniques of current interest and importance in the field. 664 pp. Englisch.



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