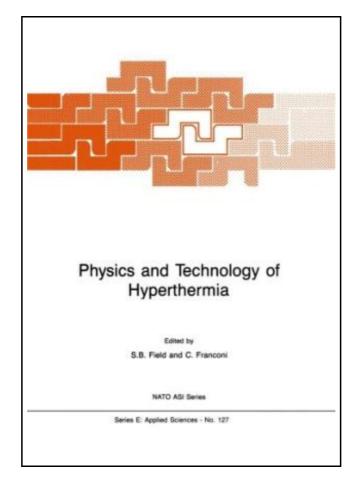
# Physics and Technology of Hyperthermia



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# **Reviews**

This written publication is fantastic. I am quite late in start reading this one, but better then never. You will not feel monotony at at any time of your respective time (that's what catalogues are for concerning should you ask me).

(Tevin McClure)

# PHYSICS AND TECHNOLOGY OF HYPERTHERMIA



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Springer, Netherlands, 2012. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. 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 acceptible 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 illdefined. 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. Softcover reprint of the original 1st ed. 1987.



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