



# Magnetism in Medicine: A Handbook

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This second, completely updated and extended edition of the only reference work in this growing field of medical physics focuses on biomagnetic instrumentation as well as applications in cardiology and neurology. New chapters have been added on fetal magnetography and magnetic field therapy, as well as the safety aspects of magnetic fields.

Written by well-known specialists from Germany, USA, Canada, Japan, the Netherlands and Scandinavia, the result is a manual for researchers in this field as well as for those who apply modern methods based on magnetism in medical practice. It equally provides a detailed overview for newcomers to the field as well as for experts familiar with only one part of the area.

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## Editorial Review

### Review

"This is an outstanding reference for both tyros and old hands...It should be on the shelves of any medical physicist..." (*Doody's Book Reviews*)

### From the Back Cover

Progress in medicine has often been initiated by discoveries and results from various disciplines of natural science. One of the most famous examples is the X-ray. In this case, its importance with respect to medical applications was immediately recognized and its development was propelled by fruitful cooperation between physicians and physicists. In other cases, e.g. that of NMR, the period between discovery and subsequent application in medicine was longer. Sometimes, a method has become established in clinical practice only after having passed through a long period of in vitro investigations and preclinical trials, while there are also applications that could only be seriously developed once crucial parts had been invented.

Such cooperation between physicians, scientists, and engineers has proven effective and is certainly also a prerequisite for the continuing development of new methods or more sophisticated techniques and instruments. This is of particular concern for the application of magnetism in medicine.

This second, completely updated and extended edition of the only reference work in this growing field of medical physics focuses on biomagnetic instrumentation as well as applications in cardiology and neurology. New chapters have been added on fetal magnetography and magnetic field therapy, as well as the safety aspects of magnetic fields.

Following an introductory section, the well-known specialist authors from Germany, USA, Canada, Japan, the Netherlands and Scandinavia go on to cover biomagnetism, magnetic resonances, as well as magnetic substances and externally applied magnetic fields, before rounding the text off with a set of conclusions.

The result is a manual for researchers in this field as well as for those who apply modern methods based on magnetism in medical practice. It equally provides a detailed overview for newcomers to the field as well as for experts familiar with only one part of the area.

### About the Author

Wilfried Andr?, born in Weimar in 1923, received his physics PhD from the University of Jena in 1957 and gained the degree of 'Doctor of Natural Sciences' at the Technical University of Dresden in 1970. In 1969 he was appointed Professor at the Deutsche Akademie der Wissenschaften in Berlin. His field of work was solid state magnetism (domains, thin films, information storage, high temperature superconductivity, micromagnetism). After his retirement his main interest moved to the application of magnetism in medicine. Prof. Andr? is author or co-author of more than 130 publications in international scientific journals and several review articles.

Hannes Nowak was born in Weinsberg, Germany, in 1948. He received his physics (PhD from the University of Wroclaw, Poland, in 1973 and finished his doctoral thesis in SQUID application at the University of Jena in 1980. He qualified as professor in 1989 and became a specialist in biomagnetism (SQUID and instrumentation, shielding, noise reduction, medical applications and magnetic source imaging). Dr. Nowak is the author or co-author of more than 50 refereed journal publications, 75 conference proceeding articles and more than 110 posters.

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