This second, completely updated and extended edition of the only reference work in the growing field of medical physics focuses on biomagnetic instrumentation as well as applications in cardiology and neurology.

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. New chapters have been added on fetal magnetography and magnetic field therapy, as well as the safety aspects of magnetic fields.

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.