



## RF Coils for MRI

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The content of this volume has been added to **eMagRes** (formerly *Encyclopedia of Magnetic Resonance*) - the ultimate online resource for NMR and MRI.

To date there is no single reference aimed at teaching the art of applications guided coil design for use in MRI. This *RF Coils for MRI* handbook is intended to become this reference.

Heretofore, much of the know-how of RF coil design is bottled up in various industry and academic laboratories around the world. Some of this information on coil technologies and applications techniques has been disseminated through the literature, while more of this knowledge has been withheld for competitive or proprietary advantage. Of the published works, the record of technology development is often incomplete and misleading, accurate referencing and attribution assignment being tantamount to admission of patent infringement in the commercial arena. Accordingly, the literature on RF coil design is fragmented and confusing. There are no texts and few courses offered to teach this material. Mastery of the art and science of RF coil design is perhaps best achieved through the learning that comes with a long career in the field at multiple places of employment...until now.

*RF Coils for MRI* combines the lifetime understanding and expertise of many of the senior designers in the field into a single, practical training manual. It informs the engineer on part numbers and sources of component materials, equipment, engineering services and consulting to enable anyone with electronics bench experience to build, test and interface a coil. The handbook teaches the MR system user how to safely and successfully implement the coil for its intended application. The comprehensive articles also include information required by the scientist or physician to predict respective experiment or clinical performance of a coil for a variety of common applications. It is expected that *RF Coils for MRI* becomes an important resource for engineers, technicians, scientists, and physicians wanting to safely and successfully buy or build and use MR coils in the clinic or laboratory. Similarly, this guidebook provides teaching material for students, fellows and residents wanting to better understand the theory and operation of RF coils.

Many of the articles have been written by the pioneers and developers of coils, arrays and probes, so this is all first hand information! The handbook serves as an expository guide for hands-on radiologists, radiographers, physicians, engineers, medical physicists, technologists, and for anyone with interests in building or selecting and using RF coils to achieve best clinical or experimental results.

## About EMR Handbooks / eMagRes Handbooks

The *Encyclopedia of Magnetic Resonance* (up to 2012) and *eMagRes* (from 2013 onward) publish a wide range of online articles on all aspects of magnetic resonance in physics, chemistry, biology and medicine. The existence of this large number of articles, written by experts in various fields, is enabling the publication of a series of **EMR Handbooks / eMagRes Handbooks** on specific areas of NMR and MRI. The chapters of each of these handbooks will comprise a carefully chosen selection of articles from *eMagRes*. In consultation with the *eMagRes* Editorial Board, the **EMR Handbooks / eMagRes Handbooks** are coherently planned in advance by specially-selected Editors, and new articles are written (together with updates of some already existing articles) to give appropriate complete coverage. The handbooks are intended to be of value and interest to research students, postdoctoral fellows and other researchers learning about the scientific area in

question and undertaking relevant experiments, whether in academia or industry.

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