



# NMR Probeheads for Biophysical and Biomedical Experiments: Theoretical Principles and Practical Guidelines

By Joël Mispelter, Mihaela Lupu, André Briguet

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*NMR Probeheads for Biophysical and Biomedical Experiments 2nd Edition* is essential reading for anyone in the field of NMR or MRI, from students to medical or biological scientists performing experiments under certain physical and/or geometrical conditions, unattainable by conventional or available probes. The material guides the reader through the most basic and comprehensive stages in accomplishing a correct probe design, from a very basic oscillating circuit to much more elaborate designs.

This new edition has been revised and updated to include a chapter dedicated to RF components, which are commonly used for probes realization and their frequency-dependent characteristics. Another completely revised chapter concerns the multiple coil systems and discusses arrays coils, different decoupling methods, and some principles for interfacing coils with low-noise preamplifiers. The principles of linear circuit analysis are presented in a dedicated chapter. Last but not least, accompanying files containing updated software for probe design have been made available from the publisher's website.

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- Rank: #2001816 in eBooks
- Published on: 2015-05-27
- Released on: 2015-09-16
- Format: Kindle eBook

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## **Editorial Review**

### **From the Inside Flap**

This book is intended to provide the basis of knowledge to design and build NMR probeheads specific for a given experiment like *in vivo* magnetic resonance spectroscopy or imaging. Since the book is intended for practical use, each step leading to the realization of the probe is detailed. The covered subjects include the principles of operation of NMR probes, and guidelines for choosing a specific configuration, as well as the electrical and mechanical details to construct the resonator. Examples of NMR probes, already built and working, are given and commented in detail. A set of tools (formulae and numerical calculations) useful for designing, evaluating and debugging the probes are given.

## **Users Review**

### **From reader reviews:**

#### **Lorraine Woodward:**

In this 21st centuries, people become competitive in every single way. By being competitive now, people have do something to make these people survives, being in the middle of the particular crowded place and notice simply by surrounding. One thing that occasionally many people have underestimated it for a while is reading. Yep, by reading a publication your ability to survive boost then having chance to stand up than other is high. In your case who want to start reading a new book, we give you this specific NMR Probeheads for Biophysical and Biomedical Experiments: Theoretical Principles and Practical Guidelines book as basic and daily reading book. Why, because this book is more than just a book.

#### **Robert Auclair:**

Spent a free time and energy to be fun activity to perform! A lot of people spent their leisure time with their family, or their friends. Usually they accomplishing activity like watching television, gonna beach, or picnic within the park. They actually doing same thing every week. Do you feel it? Would you like to something different to fill your own personal free time/ holiday? Could be reading a book can be option to fill your free time/ holiday. The first thing that you ask may be what kinds of publication that you should read. If you want to try out look for book, may be the guide untitled NMR Probeheads for Biophysical and Biomedical Experiments: Theoretical Principles and Practical Guidelines can be very good book to read. May be it is usually best activity to you.

#### **Lillie Rose:**

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**Vickie Flores:**

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