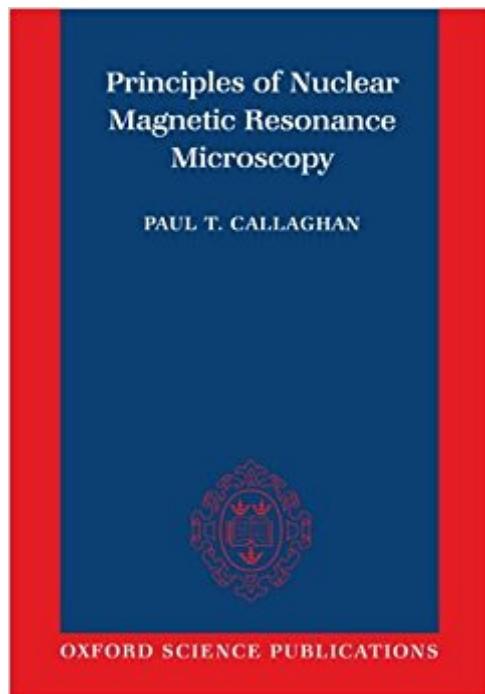


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Principles Of Nuclear Magnetic Resonance Microscopy



Synopsis

Although nuclear magnetic resonance is perhaps best known for its spectacular utility in medical tomography, its potential applicability to fields such as biology, materials science, and chemical physics is being increasingly recognized as laboratory NMR spectrometers are adapted to enable small scale imaging. This excellent introduction to the subject explores principles and common themes underlying two key variants of NMR microscopy, and provides many examples of their use. Methods discussed are not only important to fundamental biological and physical research, but have applications to a wide variety of industries, including those concerned with petrochemicals, polymers, biotechnology, food processing, and natural product processing. The wide range of scientists interested in NMR microscopy will want to own a copy of this book.

Book Information

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Customer Reviews

Dr. Callaghan's work over the past 15 years has been instrumental in developing microscopic applications of NMR imaging. In this text, he expands on the seminal papers that he has published in the field and brings them together into a coherent whole. The viewpoint of the book is that of a physicist with a powerful tool looking at physical and biological problems. Of the many texts on MR imaging I believe Dr Callaghan's description of MR physics to be most clear and complete. This book is recommended for physicists and engineers interested in NMR microscopy of course. However I would go on and recommend it for any serious student of MRI wanting a single volume that has a clear description of the fundamental phenomena at work in forming their images.

Excellent book for learning the principles of imaging. I initially tried learning from the book by Mansfield and Morris and found it rather unfocused and unclear. Callaghan's book is clear, focused and very understandable.

this is good book for learning about q-space imaging and MRI. general information about MRI might be dated, but also useful.

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