

MRI & Spectroscopy - Some Recommended Reading

There is now a huge literature on the methods and applications of magnetic resonance imaging and spectroscopy. Listed below are some examples that we have used, but there are many others.

Books

- **S Doran and M Leach**
“**Spatially Localised Magnetic Resonance**”
Chapter in “Webb’s Physics of Medical Imaging” (CRC Press, 2nd ed 2012)
Thoroughly updated chapter on all aspects of MRI. Simon Doran teaches on this course. Especially useful text if you are interested or plan to attend other modules in Medical Imaging
- **DW McRobbie, EA Moore, MJ Graves, MR Prince** “**MRI From Picture to Proton**”
Cambridge University Press (2nd Ed 2007)
A very readable introduction to MRI. The illustrations are especially good.
- **D Gadian**
“**Nuclear Magnetic Resonance and its applications to Living Systems**”. (OUP 2nd Ed 1995).
An excellent introduction to the concepts and applications of NMR in biological systems. Bias towards experimental rather than clinical usage.
- **C Westbrook and C Kaut**
“**MRI in Practice**”. (Blackwell Scientific Publications, 4th Ed 2011)
- **MT Vlaardingerbroek and JA den Boer.**
“**Magnetic Resonance Imaging: Theory and Practice**” (Springer Verlag 3rd Ed 2003)
A good, advanced text for MRI
- **EM Haacke, RW Brown, MR Thompson, R Venkatesan** **Magnetic Resonance Imaging**
(Wiley-Liss 1999)
A substantial and thorough MRI text
- **R A de Graaf**
In vivo NMR Spectroscopy: Principles and Techniques (Wiley 2nd ed 2007)
An excellent text for in vivo MR spectroscopy
- **DM Grant and RK Harris (Eds)**
Encyclopaedia of Nuclear Magnetic Resonance (John Wiley. Volumes 1 – 8 1996; Volume 9 2002)
The ultimate reference source for all NMR topics.

Websites

- **JP Hornak, “Basics of MRI”**
<http://www.cis.rit.edu/htbooks/mri/>
A very useful website. Good illustrations.