



NMR Crystallography

Download now

[Click here](#) if your download doesn't start automatically

NMR Crystallography

NMR Crystallography

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

The term "NMR Crystallography" has only recently come into common usage, and even now causes raised eyebrows within some parts of the diffraction community. The power of solid-state NMR to give crystallographic information has considerably increased since the CPMAS suite of techniques was introduced in 1976. In the first years of the 21st century, the ability of NMR to provide information to support and facilitate the analysis of single-crystal and powder diffraction patterns has become widely accepted. Indeed, NMR can now be used to refine diffraction results and, in favorable cases, to solve crystal structures with minimal (or even no) diffraction data. The increasing ability to relate chemical shifts (including the tensor components) to the crystallographic location of relevant atoms in the unit cell via computational methods has added significantly to the practice of NMR crystallography. Diffraction experts will increasingly welcome NMR as an allied technique in their structural analyses. Indeed, it may be that in the future crystal structures will be determined by simultaneously fitting diffraction patterns and NMR spectra.

This Handbook is organised into six sections. The first contains an overview and some articles on fundamental NMR topics, followed by a section concentrating on chemical shifts, and one on coupling interactions. The fourth section contains articles describing how NMR results relate to fundamental crystallography concepts and to diffraction methods. The fifth section concerns specific aspects of structure, such as hydrogen bonding. Finally, four articles in the sixth section give applications of NMR crystallography to structural biology, organic & pharmaceutical chemistry, inorganic & materials chemistry, and geochemistry.

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.

Have the content of this Handbook and the complete content of *eMagRes* at your fingertips!
Visit: www.wileyonlinelibrary.com/ref/eMagRes

View other *eMagRes* publications here

 [Download NMR Crystallography ...pdf](#)

 [Read Online NMR Crystallography ...pdf](#)

Download and Read Free Online NMR Crystallography

From reader reviews:

Michelle Jennings:

Have you spare time for just a day? What do you do when you have a lot more or little spare time? Yeah, you can choose the suitable activity regarding spend your time. Any person spent their own spare time to take a walk, shopping, or went to the particular Mall. How about open or read a book called NMR Crystallography? Maybe it is being best activity for you. You recognize beside you can spend your time with your favorite's book, you can cleverer than before. Do you agree with its opinion or you have some other opinion?

Patricia Henderson:

The ability that you get from NMR Crystallography may be the more deep you digging the information that hide inside the words the more you get interested in reading it. It doesn't mean that this book is hard to understand but NMR Crystallography giving you buzz feeling of reading. The copy writer conveys their point in particular way that can be understood simply by anyone who read the item because the author of this publication is well-known enough. This kind of book also makes your current vocabulary increase well. It is therefore easy to understand then can go with you, both in printed or e-book style are available. We highly recommend you for having this particular NMR Crystallography instantly.

Marlene Wiedman:

Often the book NMR Crystallography will bring one to the new experience of reading a new book. The author style to elucidate the idea is very unique. In the event you try to find new book to see, this book very suited to you. The book NMR Crystallography is much recommended to you you just read. You can also get the e-book in the official web site, so you can more easily to read the book.

Alice Winfield:

As a college student exactly feel bored for you to reading. If their teacher inquired them to go to the library or make summary for some book, they are complained. Just little students that has reading's internal or real their passion. They just do what the educator want, like asked to the library. They go to right now there but nothing reading significantly. Any students feel that looking at is not important, boring in addition to can't see colorful pics on there. Yeah, it is to be complicated. Book is very important in your case. As we know that on this time, many ways to get whatever we would like. Likewise word says, ways to reach Chinese's country. Therefore , this NMR Crystallography can make you feel more interested to read.

**Download and Read Online NMR Crystallography
#CS1KONU2ZP6**

Read NMR Crystallography for online ebook

NMR Crystallography Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read NMR Crystallography books to read online.

Online NMR Crystallography ebook PDF download

NMR Crystallography Doc

NMR Crystallography Mobipocket

NMR Crystallography EPub