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Descrizione fisica	1 online resource (411 p.)
Collana	Spectroscopic Techniques: An Interactive Course
Disciplina	543.0877 547.128
Soggetti	Nuclear magnetic resonance spectroscopy - Data processing Electronic books.
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	NMR Spectroscopy: Modern Spectral Analysis; Table of Contents; 1 Introduction; 1.1 Scope and Audience; 1.2 Organisation; 1.3 Personal Qualifications; 1.4 Contents; 1.5 Technical Requirements; 1.6 Software; 1.6.1 General Remarks; 1.6.2 Installation; 1.6.3 Basic Program Knowledge; 1.6.4 Book Formatting; 1.7 Recommended Reading and References; 2 General Characteristics of Spin Systems; 2.1 The Chemical Shift; 2.1.1 Spin Systems Without Coupling; 2.1.2 The NMR Resonance Frequency; 2.1.2.1 The NMR Transition Frequency; 2.1.2.2 The NMR Transition Intensity; 2.1.2.3 The NMR Lineshape 2.1.3 Two Non-Coupled Spins2.1.3.1 Two Isochronous Spins; 2.1.3.2 Two Non-Isochronous Spins Without Coupling; 2.1.4 Basic Notation of Spin Systems; 2.1.5 Summary and Examples; 2.2 First Order Spin Systems; 2.2.1 Introduction to Spin-Spin Coupling; 2.2.2 The AX Spin System; 2.2.2.1 Heteronuclear AX Spin Systems; 2.2.2.2 Homonuclear AX Spin Systems; 2.2.2.3 Summary; 2.2.3 The AMX Spin System; 2.2.4 Extended First Order Spin Systems; 2.2.4.1 AMRX Spin Svstems; 2.2.4.2

Fragmentation of Spin Systems; 2.3 Second Order Spin Systems; 2.3.1 Notational Aspects; 2.3.2 The AB Spin System
 2.3.2.1 The Graphical Spectrum Analysis 2.3.2.2 Suppression of Particular Transitions; 2.3.3 The ABX Spin System; 2.3.3.1 Analytical Solution for the ABX Spin System; 2.3.3.2 First Order Based ABX Solution; 2.3.4 Extended Spin Systems; 2.3.4.1 Taking Advantage of Field Effects; 2.4 Magnetic Equivalence; 2.4.1 Notational Aspects; 2.4.2 The Coupled A2 Spin System; 2.4.3 The Composite Particle Approach; 2.4.4 The A n Spin Systems; 2.4.5 First Order Spin Systems; 2.4.5.1 The A2X Spin System; 2.4.5.2 The AX3 Spin System; 2.4.5.3 AnXm Spin Systems
 2.4.5.4 First Order Spin Systems with more than one Coupling 2.4.6 Second Order Spin Systems; 2.4.6.1 The A2B Spin System; 2.5 References; 3 Structure and Spin System Parameters; 3.1 Symmetry Effects; 3.1.1 Structural and Notational Aspects; 3.1.2 The [AX1]2 Spin System; 3.1.3 The [AB]2 spin system; 3.2 Configuration Isomers in NMR; 3.2.1 Cis/trans Isomerism; 3.2.1.1 Determination of the Signs of Coupling Constants; 3.2.1.2 Extended Spin Systems; 3.2.2 Enantiomers and Diastereomers; 3.3 Conformation and NMR; 3.3.1 Taking Advantage of Field and Solvent Effects; 3.3.1.1 Linewidths
 4.2.3 Spin Systems Containing 29Si

Sommario/riassunto

The state-of-the-art in NMR spectral analysis. This interactive tutorial provides readers with a comprehensive range of software tools and techniques, as well as the necessary theoretical knowledge required to analyze their spectra and obtain the correct NMR parameters. Modern Spectral Analysis provides expert guidance, by presenting efficient strategies to extract NMR parameters from measured spectra. A database of selected spectra and modern, powerful WIN-NMR software designed by Bruker are provided on the enclosed CD-ROM. The programs provided are 1 D WIN-NMR, WIN-DAISY, WIN-DR and WI

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Disciplina	667.905
Soggetti	Coatings Paint materials Paint Ink
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	"News and technical information for the global coatings industry." Title from cover.