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Titolo	LC-NMR and other hyphenated NMR techniques [[electronic resource] ] : overview and applications / / Maria Victoria Silva Elipe
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Classificazione	SCI078000
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Soggetti	Nuclear magnetic resonance spectroscopy - Industrial applications Organic compounds - Analysis Drug development
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	LC-NMR and Other Hyphenated NMR Techniques: Overview and Applications; Contents; Preface; Abbreviations, Symbols, and Units; 1. Basic Concepts of NMR Spectroscopy; 1.1 Introduction; 1.2 Basic Knowledge Regarding the Physics of NMR Spectroscopy; 1.3 Basic Parameters for NMR Interpretation; 1.3.1 Chemical Shift; 1.3.2 Spin-Spin Coupling Constants; 1.3.3 Spin Systems; 1.3.4 Signal Intensities; 1.3.5 Bond Correlations; 1.3.6 Spatial Correlations; 1.3.7 Other Topics; 1.4 Conclusions; References; 2. Historical Development of NMR and LC-NMR; 2.1 Introduction; 2.2 Historical Development of NMR; 2.3 Historical Development of LC-NMR; 2.4 Historical Development of Other Analytical Techniques Hyphenated with NMR; 2.5 Current Trends; References; 3. Basic Technical Aspects and Operation of LC-NMR and LC-MS-NMR; 3.1 Introduction; 3.2 Technical Considerations Regarding LC-NMR; 3.2.1 Solvent Compatibility; 3.2.2 Solvent Suppression; 3.2.3 NMR Flow Cell; 3.2.4 LC-NMR Sensitivity; 3.3 Technical Considerations Regarding LC-MS-NMR; 3.3.1 Deuterated Solvents; 3.4 Modes of Operation of LC-NMR; 3.4.1 On-Flow Mode; 3.4.2 Stop-Flow Mode;

3.4.3 Time-Sliced Mode; 3.4.4 Loop Collection Mode  
 3.5 Modes of Operation of LC-MS-NMR 3.5.1 On-Flow Mode; 3.5.2 Stop-Flow Mode; 3.6 Other Modes of Operation; 3.7 Challenging Considerations; 3.7.1 Air Bubbles; 3.7.2 Carryover with and Without an Autosampler; 3.7.3 Sample Solubility and Precipitation; 3.7.4 Flow Cell and System Cleaning; 3.7.5 Flow Rate and Magnetic Susceptibility; 3.7.6 Quantitation; 3.8 Conclusions; References; 4. Applications of LC-NMR; 4.1 Introduction; 4.2 Applications of LC-NMR; 4.2.1 Natural Products; 4.2.2 Drug Metabolism; 4.2.3 Drug Discovery; 4.2.4 Impurity Characterization; 4.2.5 Degradation Products 4.2.6 Food Analysis 4.2.7 Polymers; 4.2.8 Metabolomics and Metabonomics; 4.2.9 Isomers, Tautomers, and Chiral Compounds; 4.2.10 Others Areas; 4.3 Conclusions and Future Trends; References; 5. Applications of LC-MS-NMR; 5.1 Introduction; 5.2 Applications of LC-MS-NMR; 5.2.1 Natural Products; 5.2.2 Drug Metabolism; 5.2.3 Drug Discovery and Development; 5.2.4 Metabolomics and Metabonomics; 5.2.5 Others Areas; 5.3 Conclusions and Future Trends; References; 6. Hyphenation of NMR with Other Analytical Separation Techniques; 6.1 Introduction; 6.2 GC-NMR; 6.3 GPC-NMR; 6.4 SEC-NMR; 6.5 SFC-NMR 6.6 SFE-NMR 6.7 CE-NMR; 6.8 CEC-NMR; 6.9 CZE-NMR; 6.10 cITP-NMR; 6.11 CapLC-NMR; 6.12 SPE-NMR; 6.13 SPE-MS-NMR; 6.14 Conclusions and Future Trends; References; 7. Special Topics and Applications Related to LC-NMR; 7.1 Introduction; 7.2 Off-Line Versus Online NMR for Structural Elucidation; 7.2.1 Cases Solved Off-Line; 7.2.2 Cases Solved Online; 7.3 Analysis of Chiral Molecules by NMR; 7.3.1 Classical Approach: Off-Line; 7.3.2 Nonclassical Approach: Online; 7.4 Monitoring Chemical Reactions In Situ; 7.4.1 Classical Approach: Off-Line; 7.4.2 Nonclassical Approach: Online 7.5 Analysis of Mixtures Off-Line, Online, and by Other NMR Methodologies

## Sommario/riassunto

This practical guide provides a basic overview of the pros and cons of NMR spectroscopy as both a hyphenated and non-hyphenated technique. The book begins with a description of basic NMR concepts for the structural elucidation of organic compounds and then details the historical development of NMR and hyphenated NMR in the structural elucidation world, followed by applications of hyphenated NMR as LC-NMR and LC-MS-NMR in industry and academia. It also contains updated information on the latest advancements and applications of LC-NMR in such areas as degradation products, drug metabolism, food

2. Record Nr.	UNINA9910790043203321
Autore	Nuyts Jan
Titolo	Aspects of a cognitive-pragmatic theory of language [[electronic resource] ] : on cognition, functionalism, and grammar / / Jan Nuyts
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	ASPECTS OF A COGNITIVE-PRAGMATIC THEORY OF LANGUAGE; Editorial page; Title page; Copyright page; Preface; Table of contents; Introduction; 1. Elements of the Theory; 2. Linguistic Knowledge and Language Use: Chomsky Revisited; 3. Linguistic and Conceptual Systems in Language Processing; Conclusion; References; Subject Index; Index of Names; The series Pragmatics & Beyond New Series
Sommario/riassunto	This book is about a theory of language that combines two observations (1) that language is based on an extensive cognitive infrastructure (cognitivism) and (2) that it is functional for its user (functionalism). These observations are regarded as two dimensions of one phenomenon that both need to be accounted for, simultaneously and coherently, in accounting for language. Chapter 1 presents the cognitivist and functionalist points of view and their interrelation and discusses the integration of language research under a cognitive umbrella; the issue of defining 'functions of language', and th