

Horst Friebolin Ein Und Zweidimensionale Nmr Spektroskopie

Ein- und zweidimensionale NMR-Spektroskopie Basic One- and Two-dimensional NMR Spectroscopy. (Ein- und Zweidimensionale NMR-Spektroskopie). 2., Enl. Ed Ein- und zweidimensionale NMR-Spektroskopie Organic Structures from 2D NMR Spectra Fast 2D Solution-state NMR Metabolomics, Metabonomics and Metabolite Profiling Gums and Stabilisers for the Food Industry 11 Interpretation of Organic Spectra Contemporary Computer-assisted Approaches to Molecular Structure Elucidation Acronyms and Abbreviations in Molecular Spectroscopy Encyclopedia of Analytical Science Zweidimensionale NMR-Spektroskopie an kristallinen und amorphen Phosphaten NMR-Spektroskopie: Processing Strategies JJAP Canadian Journal of Chemistry Ein- und zweidimensionale NMR-Spektroskopie zur Strukturbestimmung des Proteins HPr Japanese Journal of Applied Physics Les Prix Nobel Macromolecular Engineering, Volume 1 Synthesis and Characterization of Helical L-peptides Horst Friebolin Horst Friebolin Horst Friebolin L. D. Field Jean-Nicolas Dumez William J. Griffiths Peter A. Williams Yong-Cheng Ning Mikhail Elyashberg Detlef A.W. Wendisch Martin Feike Peter Bigler Wolfgang Beneicke Krzysztof Matyjaszewski Daniel Howard Appella

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diese vollst[?] ndig [?] bearbeitete und aktualisierte neuauflage des klassischen lehrbuches beinhaltet neben den grundlagen der nmr spektroskopie auch die der spektreninterpretation ohne viel mathematik bietet der text eine einleitung und deckt somit auch den lehrstoff von hochschulkursen ab der hauptanteil des buches ist nach wie vor der nmr spektroskopie an l[?] sungen gewidmet doch wurden auch verst[?] rkt untersuchungen an festk[?] rpern und die analyse von biopolymeren ber[?] cksichtigt zum schluss werden einige einsatzm[?] glichkeiten der kernspintomographie und der kombination von tomographie und spektroskopie besprochen erg[?] nzt wurde jedes kapitel um aufgaben deren l[?] sungsvorschl[?] ge im anschluss an kapitel 14 zu finden sind mit seiner [?] bersichtlichen darstellung ist dieses buch ein muss f[?] r studenten dozenten und anwender der nmr spektroskopie in der chemie biochemie und pharmazie

dieses klassische lehrbuch beinhaltet die grundlagen zur nmr spektroskopie und zur spektreninterpretation ohne viel mathematik bietet der text f[?] r studenten und fachleuten eine einleitung in der die zugrunde liegende theorie gr[?] ndlich erkl[?] rt wird dabei deckt der inhalt den lehrstoff von hochschulkursen ab diese vollst[?] ndig [?] bearbeitete und aktualisierte auflage von einem nmr fachmann mit langj[?] briger lehrerfabrung geschrieben beinhaltet jetzt auch festk[?] rper nmr analyse der biopolymere einsatzm[?] glichkeiten von kernspintomografie und kernspinresonanzspektroskopie mit seiner [?] bersichtlichen darstellung ist dieses buch ein muss f[?] r studenten und dozenten der chemie biochemie und pharmazie und f[?] r anwender dieser spektroskopiemethode

the derivation of structural information from spectroscopic data is now an integral part of organic chemistry courses at all universities over recent years a number of powerful two dimensional nmr techniques e g hsqc hmbc tocsy cosy and noesy have been developed and these have vastly expanded the amount of structural information that can be obtained by nmr spectroscopy improvements in nmr instrumentation now mean that 2d nmr spectra are routinely and sometimes automatically acquired during the identification and characterisation of organic compounds organic structures from 2d nmr spectra is a carefully chosen set of more than 60 structural problems employing 2d nmr spectroscopy the problems are graded to develop and consolidate a student s understanding of 2d nmr spectroscopy there are many easy problems at the beginning of the collection to build confidence and demonstrate the basic principles from which structural information can be extracted using 2d nmr the accompanying text is very descriptive and focussed on explaining the underlying theory at the most appropriate level to sufficiently tackle the problems organic structures from 2d nmr spectra is a graded series of about 60 problems in 2d nmr spectroscopy that assumes a basic knowledge of organic chemistry and a basic knowledge of one dimensional nmr spectroscopy incorporates the basic theory behind 2d nmr and those common 2d nmr experiments that have proved most useful in solving structural problems in organic chemistry focuses on the most common 2d nmr techniques including cosy noesy hmbc tocsy ch correlation and multiplicity edited c h correlation incorporates several examples containing the heteronuclei 31p 15n and 19f organic structures from 2d nmr spectra is a logical follow on from the highly successful organic structures from spectra which is now in its fifth edition the book will be invaluable for students of chemistry pharmacy biochemistry and those taking courses in organic chemistry also available instructors guide and solutions manual to organic structures from 2d nmr spectra

written by active investigators in the field this book describes state of the art methods that can accelerate the acquisition of 2d nmr spectra in solution state nmr the acquisition of fast multi dimensional nmr data has motivated numerous ground breaking developments in nmr pulse sequences and associated data processing methods these in turn have revolutionized the way 2d nmr acquisitions are performed at the

same time broadening the scope of applications of 2d nmr the first part of the book provides an in depth description of the concepts and implementation of major fast 2d nmr methods the second part follows with illustrations of how such methods can be used in applications that require the acquisition of fast 2d nmr spectra from reaction monitoring to hyperpolarization including applications to a broad variety of samples and experimental conditions appealing to readers from both the methodology and applications communities this title will fill a gap in the market for a book focused on small molecule nmr and researchers from both academia and industry will find a rich plethora of knowledge

in this comprehensive resource the editor draws together experts from the field and provides an insightful introduction into the technology and methodology

the breadth and depth of knowledge of gums and stabilisers has increased tremendously over the last two decades with researchers in industry and academia collaborating to accelerate the growth gums and stabilisers for the food industry 11 presents the latest research in the field of hydrocolloids used in food bringing together contributions from international experts the first section of the book investigates the advances in structure determination and characterisation of hydrocolloids including the use of capillary electrophoresis later sections deal with rheological aspects of hydrocolloids in solutions and gels the application of hydrocolloids in real food systems and the interfacial behaviour and gelation of proteins a discussion of the influence of hydrocolloids on human health is also included researchers and other professionals in industry and academia particularly those involved directly with food science will welcome this title as a source of the very latest information

although there are a number of books in this field most of them lack an introduction of comprehensive analysis of ms and ir spectra and others do not provide up to date information like tandem ms this book fills the gap the merit of this book is that the author will not only introduce knowledge for analyzing nuclear magnetic resonance spectra including 1h spectra chapter 1 13c spectra chapter 2 and 2d nmr spectra chapter 3 he also arms readers systemically with knowledge of mass spectra including ei ms spectra and ms spectra by using soft ionizations chapter 4 and ir spectra chapter 5 in each chapter the author presents very practical application skills by providing various challenging examples the last chapter chapter 6 provides the strategy skills and methods on how to identify an unknown compound through a combination of spectra based on nearly 40 years researching and teaching experience the author also proposes some original and creative ideas which are very practical for spectral interpretation

the first volume that describes the principles on which expert case systems for structure elucidation are based and concisely explains the algorithmic concepts behind the programs

highly recommended for all academic library chemistry collections biochemistry and medical collections may also want to consider choice each entry is provided with a definition a description of the effect application and literature citations the selection in this book is broad and useful j of am chem soc the book is not just a collection of definitions of acronyms each entry contains a concise and informative explanation of the origins of the technique or method to which it refers this book is a must for progression of any budding spectroscopist analyst

the third edition of the encyclopedia of analytical science ten volume set is a definitive collection of articles covering the latest technologies in application areas such as medicine environmental science food science and geology meticulously organized clearly written and fully interdisciplinary the encyclopedia of analytical science ten volume set provides foundational knowledge across the scope of modern analytical chemistry linking fundamental topics with the latest methodologies articles will cover three broad areas analytical techniques e g mass spectrometry liquid chromatography atomic spectrometry areas of application e g forensic environmental and clinical and analytes e g arsenic nucleic acids and polycyclic aromatic hydrocarbons providing a one stop resource for analytical scientists offers readers a one stop resource with access to information across the entire scope of modern analytical science presents articles split into three broad areas analytical techniques areas of application and and analytes creating an ideal resource for students researchers and professionals provides concise and accessible information that is ideal for non specialists and readers from undergraduate levels and higher

accompanying cd rom provides a comprehensive nmr database and powerful software tools based on win nmr software designed by brucker

vol for 1901 has a sketch of alfred nobel and his works by p t cleve

the book provides a state of the art description of the synthetic tools to precisely control various aspects of macromolecular structure including chain composition microstructure functionality and topology as well as modern characterization techniques at molecular and macroscopic level for various properties of well defined co polymers in solution bulk and at surfaces the book addresses also the correlation of molecular structure with macroscopic properties additionally affected by processing finally some emerging applications for the co polymers are highlighted

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