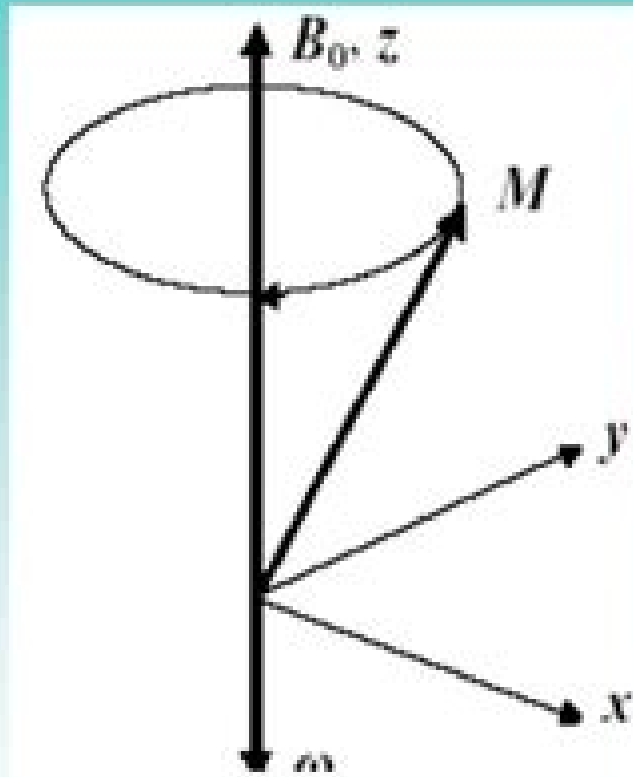


2.3 Bloch-Gleichungen



Äußeres B-Feld → Änderung der Magnetisierung

$$\frac{d\vec{M}}{dt} = \gamma(\vec{M} \times \vec{B})$$

Magnetisierungsvektor präzidiert um B mit der Lamorfrequenz

$$\omega_L = -\gamma B$$

Grundprinzip: Anregende Photonen: $E = h\omega_L$

Kernmagnetische Resonanz

P. Diehl, E. Fluck, R. Kosfeld



Kernmagnetische Resonanz:

Kernmagnetische Resonanz Hans Sillescu, 2013-10-05 Das vorliegende Buch will eine kurze leicht lesbare Einführung in die Theorie der kernmagnetischen Resonanzerscheinungen geben. Die Anforderungen aus der theoretischen Physik werden niedrig gehalten, um dem an Anwendungen der kernmagnetischen Resonanz interessierten Chemiker den Zugang zu erleichtern. Dazu werden die Ableitungen der wichtigen Gleichungen ziemlich breit dargestellt und es werden oft Zwischenrechnungen ausführlich hingeschrieben, die in anspruchsvolleren Darstellungen dem Leser berlassen werden. Die Auswahl des Stoffes ist zum Teil durch didaktische Erwägungen bestimmt. Nach einem kurzen Überblick über die Nomenklatur der Kernresonanzerscheinungen beginnt Kap. I mit der Darstellung der Ableitung der klassischen Beziehungen für die magnetischen und elektrischen Wechselwirkungen. Kap. II, die in den weiteren Kapiteln quantenmechanisch behandelt werden, die zeitunabhängigen Kopplungen. Kap. III, aus denen sich die Kernresonanzfrequenzen in Flüssigkeiten sowie in diamagnetischen, paramagnetischen und metallischen Festkörpern ergeben, nehmen den breitesten Raum ein. Ihre Behandlung ist vergleichsweise einfach und im Hinblick auf Anwendungen in der Chemie besonders wichtig. Die Darstellung der zeitabhängigen Kopplungen. Kap. IV geht nur bis zu einer Stufe, die in der historischen Entwicklung der Theorie etwa 1953 vor dem Erscheinen der Arbeit von WANGNESS und BLOCH erreicht war. Auf dieser Stufe lassen sich die physikalischen Grundlagen der Kernresonanzabsorption gut verstehen. Die Grenzen und Mängel der älteren Theorie werden klar herausgestellt und der Weg zu einer besseren und umfassenderen Beschreibung wird wenigstens im Ansatz aufgezeigt.

Die Kernmagnetische Resonanz und Ihre Anwendung in der Anorganischen Chemie Ekkehard Fluck, 2013-03-13 Die anorganische Chemie war das erste Gebiet, an dem sich die Wissenschaft vom Stoff und seinen Verwandlungen versuchte. Großartige Entdeckungen und eindrucksvolle Forscherpersönlichkeiten kennzeichnen diese Frühzeit der chemischen Wissenschaft. Vom letzten Drittel des vorigen Jahrhunderts an trat dann aber bald das Interesse an dem Gebiet der anorganischen Chemie zurück. Die Chemie der Kohlenstoffverbindungen begann, die Chemiker aller Länder ganz vorwiegend zu beschäftigen. Sehr brauchbare theoretische Vorstellungen und die Ausarbeitung einer zweckmäßigen Laboratoriumstechnik leiteten auf diesem Gebiet eine stürmische Entwicklung ein, die wissenschaftlichen und industriellen Fortschritt in nicht erwartetem Ausmaß hervorrief. Erst vor etwa 20 Jahren begann auch die anorganische Chemie an dieser erfolgreichen Entwicklung wieder teilzuhaben. Wir beobachten gerade in unseren Tagen, wie auf dem Gebiet der anorganischen Chemie wieder Entdeckungen gemacht werden, die der künftigen Forschung und der modernen technischen Entwicklung den Weg bereiten. Dieser großartige Aufschwung der anorganischen Chemie war vor allem durch drei Voraussetzungen bedingt. Einmal war es die Weiterentwicklung der Laboratoriumstechnik, die es möglich machte, unter extremeren Bedingungen zu experimentieren und die ganzen Verbindungsklassen so erst zugänglich machten. Zum zweiten lernte man in steigendem Maße physikalische Methoden zur Verfolgung von Reaktionen heranzuziehen und zur Klärung von Molekülstrukturen zu

benutzen Zum dritten lernte man theoretische Vorstellungen auf an organisch chemische Probleme anzuwenden und neue Theorien zu entwickeln die den komplexeren Verhältnissen vieler anorganischer Stoffe gerecht werden

Kernmagnetische Resonanzspektroskopie in der organischen Chemie Adolf Zschunke, 2022-02-21 Keine ausführliche Beschreibung für Kernmagnetische Resonanzspektroskopie in der organischen Chemie verfügbar [Molecules II / Moleküle II](#) Masao Kotani, Kimio Ohno, Kunifusa Kayama, John R. Platt, 2012-12-06 *Elsevier's Dictionary of Medicine and Biology* G. Konstantinidis, 2005-08-18 Dictionaries are didactic books used as consultation instruments for self teaching They are composed by an ordered set of linguistic units which reflects a double structure the macrostructure which corresponds to the word list and the microstructure that refers to the contents of each lemma The great value of dictionaries rests in the fact that they establish a standard nomenclature and prevent in that way the appearance of new useless synonyms This dictionary contains a total of about 27 500 main English entries and over of 130 000 translations that should normally sufficiently cover all fields of life sciences The basic criteria used to accept a word a part of the dictionary during the development period in order of importance were usage up to dateness specificity simplicity and conceptual relationships The dictionary meets the standards of higher education and covers all main fields of life sciences by setting its primary focus on the vastly developing fields of cell biology biochemistry molecular biology immunology developmental biology microbiology genetics and also the fields of human anatomy histology pathology physiology zoology and botany The fields of ecology paleontology systematics evolution biostatistics plant physiology plant anatomy plant histology biometry and lab techniques have been sufficiently covered but in a more general manner The latest Latin international anatomical terminology Terminologia Anatomica or TA has been fully incorporated and all anatomical entries have been given their international Latin TA synonym This dictionary will be a valuable and helpful tool for all scientists teachers students and generally all those that work within the fields of life sciences **NMR-Tomography and -Spectroscopy in Medicine** Klaus Roth, 2012-12-06 Even the earliest applications of nuclear magnetic resonance NMR spectroscopy and tomography to medical inquiries using experimental apparatus that was primitive by today's standards demonstrated the extraordinary potential of the NMR method The subsequent rapid advances in this area were due largely to the efforts of commercial manufacturers who by improving magnet and computer designs were able to produce and market instruments having a remarkable image quality Experimental data from the first systematic studies on the medical uses of NMR leave little doubt that NMR will gain a permanent place in clinical diagnosis The clinician then is confronted with an entirely new diagnostic modality Because NMR has been used extensively in chemistry and physics for years a great many textbooks are already available on the subject However the majority of these have been written for the natural scientist who is well versed in mathematics and physics Assumptions are made and terms are used that would not be appropriate for a medical or biochemical text The goal of this introduction therefore is to discuss the principles of the NMR technique in terms that are meaningful to the medical student and medical professional

Magnetische Kernresonanz und Chemische Struktur H. Strehlow, 2013-03-08 **Textile Dictionary /**

Textiltechnisches Wörterbuch Hermann-Josef Zingel, 2013-11-09 Die 2. Auflage dieses Buches ist durch Mitarbeiter des Institutes für Textiltechnik der RWTH Aachen fachlich durchgesehen auf den neuesten Stand gebracht um etwa 1 000 Begriffe erweitert und durch die italienische Sprache ergänzt **NMR Basic Principles and Progress / NMR**

Grundlagen und Fortschritte P. Diehl, E. Fluck, R. Kosfeld, 2012-12-06 Nuclear magnetic resonance spectroscopy which has evolved only within the last 20 years has become one of the very important tools in chemistry and physics. The literature on its theory and application has grown immensely and a comprehensive and adequate treatment of all branches by one author or even by several becomes increasingly difficult. This series is planned to present articles written by experts working in various fields of nuclear magnetic resonance spectroscopy and will contain review articles as well as progress reports and original work. Its main aim, however, is to fill a gap existing in literature by publishing articles written by specialists which take the reader from the introductory stage to the latest development in the field. The editors are grateful to the authors for the time and effort spent in writing the articles and for their invaluable cooperation. The Editors: Contents: c. W. Hilbers and C. MacLean: NMR of Molecules Oriented in Electric Fields The NMR of Polymers I. Ya. Slonim, 2012-12-06 In the time since this book was written the application of NMR in the study of polymers has continued to develop rapidly. The main trends of the work have remained as before, namely the study of the structure of polymers, molecular motion in them, and chemical conversions of high molecular weight substances. However, as a result of the refinement of experimental techniques and development of the theory, new progress has been achieved particularly in the NMR spectroscopy of polymer solutions. We therefore decided that it was worthwhile to provide an additional list of literature covering papers published in 1965, 1966, and the beginning of 1967. By using the bibliographic directory appended to the list, the reader can readily find references to the latest literature for all sections of the book. I. Ya. Slonim, A. N. Lyubimov: v. Preface to the Russian Edition. The aim of this book is mainly to answer the questions which inevitably arise for a chemist who wishes to use NMR in his work on polymers.

Kernmagnetische Resonanz an Kaliumdimeren in optisch gepumptem Wolfgang Kamke, 1978 **Nuclear**

Magnetic Resonance Spectroscopy of Boron Compounds Heinrich Nöth, Bernd Wrackmeyer, 2012-12-06 The revolutionary impetus of the NMR methods in organic chemistry has parallels in the field of boron chemistry. IIB NMR spectroscopy provided a basis for the elucidation of structures and reactions of the boron hydrides. However, although many studies have been carried out with the higher boranes, carboranes, metalloboranes, etc., and although certain patterns have emerged, the correlation between the observed chemical shift and the assigned structural unit is still not fully understood. Therefore, predictions in this area are still rather limited and semiquantitative interpretations are not yet possible. Several years ago, Eaton and Lipscomb summarized the status in this field in their book *NMR Studies of Boron Hydrides and Related Compounds*, and a plethora of new data has accumulated since then. The book also contained material on simple borane

derivatives but they were not discussed in any detail On the other hand many systematic studies both synthetic and spectroscopic have been conducted on these simple boron materials in the last decade Thus a large amount of NMR information is available not only on IIB but also on ^1H , ^{13}C and ^{14}N However this information is widely scattered in the literature and often the data are not discussed at all It seems appropriate therefore to collect these data and to present them in one volume

Dictionary of Biotechnology Rolf Schmid, Saburo Fukui, 2012-12-06 I am very pleased to comply with the request to provide a foreword to this three language Dictionary of Biotechnology This reference book which will be of great value to researchers is the result of German Japanese cooperation in the life sciences supported by the Ministry for Research and Technology Bundesministerium für Forschung und Technologie of the Federal Republic of Germany This cooperation has led to a series of contacts between scientists and scientific institutions in the two countries that have enriched and strengthened our traditionally strong ties A means of communication is a prerequisite for the exchange of scientific information the discussion of research strategies and the organization of scientific meetings In science English has become the most important language and now forms the basis of communication Yet in order to have a better understanding of specialized scientific texts often available only in Japanese or German it is important to have a glossary of biotechnological terminology in several languages I wish this dictionary of biotechnology a successful start and wide application both from the scientific and international points of view

Dynamics and Defects in Liquid Crystals Peter Palffy-Muhoray, 2022-02-14 During his distinguished scientific career Alfred Saupe made important contributions to liquid crystal research laying the groundwork on which much of the current knowledge and research in the physics of liquid crystals is based This volume features papers presented by Prof Saupe's colleagues students and friends at a festschrift in honor of his 70th birthday In addition a selection of Prof Saupe's articles are reprinted in the original German and in English translation offering the reader a unique opportunity to see both the early work of this important scientist and widespread effect of that work on later discoveries in liquid crystal physics

IBZ, 1987 Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1968

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Pb Organolead Compounds Friedo Huber, 2013-06-29 This volume is exclusively devoted to tetramethyllead Owing to the recent large scale use as an antiknock agent its application toxicological biological and environmental aspects are given much attention besides its chemical and physical properties Literature coverage up to 1986

Spectroscopy in Inorganic Chemistry V1 C.N.R. Rao, 2012-12-02 Spectroscopy in Inorganic Chemistry Volume I describes the innovations in various spectroscopic methods that are particularly effective in inorganic chemistry studies This volume contains nine chapters each chapter discusses a specific spectroscopic method their fundamental principles methods instrumentation advantages

disadvantages and application Chapter 1 covers some of the general principles and experiments that have been used in the recording and interpretation of crystal spectra of molecules that contain transition metal ions Chapter 2 illustrates the application of spectroscopic techniques to the photochemistry of small inorganic molecules non transition metal compounds and transition metal complexes The remaining chapters examine several spectroscopic methods such as matrix isolation mass soft X ray and Mossbauer spectroscopies high resolution NMR and nuclear quadrupole resonance with a particular emphasis on their effective application in inorganic chemistry studies This book will be of great benefit to inorganic chemists spectroscopists and inorganic chemistry teachers and students

Annual Reports on NMR Spectroscopy, 2011-08-26

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