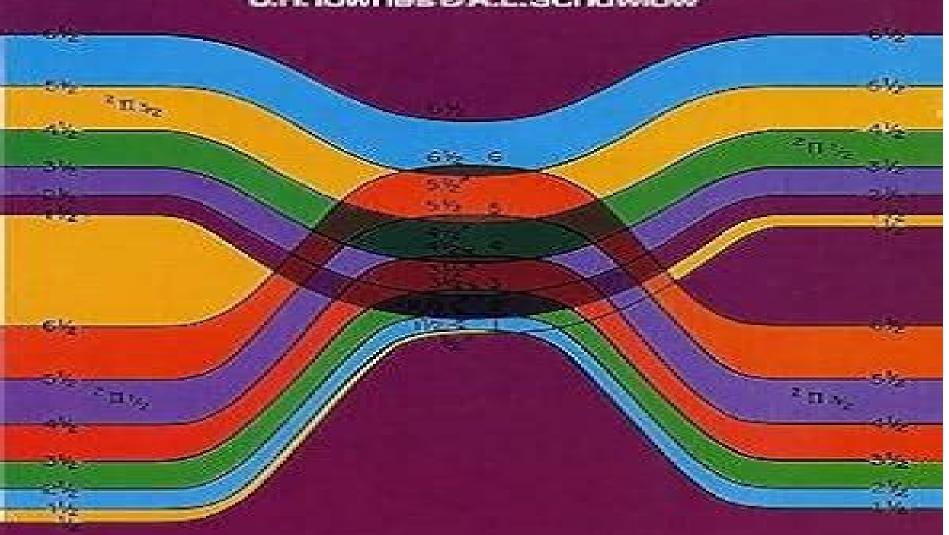
MICROWAVE SPECTROSCOPY

C.H.Townes & A.L.Schawlow



Microwave Spectroscopy A L Schawlow

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Microwave Spectroscopy Charles H. Townes, Arthur L. Schawlow, 1975-01-01 Two Nobel Laureates present a systematic comprehensive account of the theory techniques experimental data and interpretation involved in the study of microwave spectroscopy a subject relevant to nuclear physics molecular structure chemical kinetics quantum electrodynamics and astronomy The material in this volume is discussed critically systematically and in the simplest form The simplicity of the wording and mathematics makes most of the contents accessible to those with a very elementary knowledge of quantum mechanics and atomic physics Although the treatment is continuously developed each of the 18 chapters is self contained Nearly 200 tables and figures augment the text Appendixes supply most of the background for research and interpretation of microwave spectra they also contain extensive data on nuclear and molecular constants including essentially all those determined by microwave techniques Equally suitable for use as a fundamental reference or advanced textbook U S Quarterly Book Review **Spectroscopy**, 1976-10-06 Spectroscopy Einführung in die Atomphysik Wolfgang Karl Ernst Finkelnburg, 2013-07-02 Die Atomphysik in dem weitgefa ten Sinne in dem sie in diesem Buch dar gestellt wird ist die Lehre vom Aufbau der Materie aus den Elementarteilchen sowie von deren Eigenschaften und Wirkungen sie sucht die gesamte ungeheure Mannigfaltigkeit der stofflichen Erscheinungen unserer Welt mittels m glichst weniger Elementarteilchen allgemeiner Grundgesetze und Naturkonstanten ein heitlich zu verstehen Diese Lehre von der atomistischen Struktur der Atom kerne Atome Molek le und Kristalle d h der gesamten Materie ist obwohl ihre Anf nge in das vorige Jahrhundert zur ckreichen doch eindeutig das Ergebnis der Physik des 20 Jahrhunderts an dessen Schwelle PLANCKS Entdeckung des elementaren Wirkungsquantums h und seiner universellen Bedeutung den Beginn der Ouantentheorie markiert die den Schl ssel zum Verst ndnis aller Erschei nungen der Atomphysik lieferte und unter deren Zeichen der uberwiegende Teil der physikalischen Forschungsarbeit unseres Jahrhunderts steht 1 Die Bedeutung der Atomphysik fr Wissenschaft und Technik Die neue Auffassung von der Materie und damit von den letzten Grundlagen der Physik und Chemie die sich aus der Atomphysik entwickelte hat auch unsere Kenntnis von zahlreichen seit langem wohlbekannten Gebieten der Physik in solchem Ma e umgestaltet da man heute vielfach das um die Jahrhundertwende weitgehend vollendete Geb ude der Physik ohne Ber cksichtigung der guanten haften atomaren Erscheinungen als klassische Physik bezeichnet und ihm als moderne Physik eine vom atomphysikalischen Standpunkt aus aufgefa te Physik gegen berstellt

Spektroskopie II / Spectroscopy II S. Flügge, 2013-03-13 <u>Einführung in die Atomphysik</u> Wolfgang Finkelnburg, 2013-03-12 IN DIE ATOMPHYSIK Alle Rechte insbesondere das der Obersetzung in fremde Sprachen vorbehalten Ohne ausdriickliche Genehmigung des Verlages ist es auch nicht gestattet dieses Buch oder Teile daraus auf photomechanischem Wege Photokopie Mikrokopie oder auf andere Art zu vervielfaltigen Copyright 1948 1951 and 1954 by Springer Verlag Berlin Heidelberg by Springer Verlag Berlin Heidelberg 1956 1958 1%2 1%4 1%7 and 1976 Library of

Congress Catalog Card Number 66 26097 ISBN 13 978 3 540 03791 0 e ISBN 13 978 3 642 64980 6 001 10 1007 978 3 642 64980 6 Die Wiedergabe von Gebrauch Fundamentals of Molecular Spectroscopy. P S Sindhu, 2006 The Book Has 15 Chapters In All The First Two Chapters Are Related To Atomic Structure And Atomic Spectra The Next Chapter Is Devoted To Nature Of Chemical Bonds As Looked Upon Through Quantum Mechanics Followed By All Types Of Spectroscopy Every Aspect Is Explained With Some Typical Spectra The Underlying Theory So Developed Will Help Students To Carry Out Spectral Analysis Only Simple Quantum Mechanics Relevant To Simple Molecular Structure Has Been Given Attempt Has Been Made To Relate The Characteristic Chemical Behavior Of These Molecules With Its Mo And Thus To Molecular Spectra One Will Not Find Such Relationship In Any Book But This Will Make Chemistry As Such Still More Interesting Application Of Infrared And Ultra Violet Spectroscopy Nmr And Mass Spectra In Structure Determination Of Organic Molecules Are Very Elegantly Presented In The Fourteenth Chapter Lasers And Their Applications To Various Types Of Second Third And Fourth Order Scattering Spectroscopy Have Been Developed The Book Has Minimum But Essential Mathematics With Very Easy Format In Its Text Such An Approach Will Give A Clear Understanding Of The Subject And Provides Knowledge To Excel At Any Level University Examination Competitive Examination And Before Interview Boards Einführung in die Physikalische Chemie Heinrich Labhart, 2013-03-12 Microwave Spectral Tables United States. National Bureau of Standards, 1964

Microwave Spectral Tables: Polyatomic molecules with internal rotation, by P. F. Wacker [and others United States. National Bureau of Standards, 1964 Rotational Spectroscopy of Diatomic Molecules John M. Brown, Alan Carrington, 2003-04-10 The definitive text on the rotational spectroscopy of diatomic molecules Kurzes Lehrbuch der Physikalischen Chemie W. Jost, J. Troe, 2013-03-08 Grundlagen und Hauptgruppenelemente, 2016-12-19 Das Holleman Wiberg bietet seit Jahrzehnten ein umfassendes Stoffwissen der anorganischen und metallorganischen Chemie Mit der 103 Auflage ist nach umfangreicher Umgestaltung der Vorauflage ein neues Werk entstanden das zur umfassenden Pr fungsvorbereitung und als Nachschlagewerk bestimmt ist Zus tzliche Wissensgebiete der Chemie und aktuelle chemische Fakten werden in neuen Kapiteln Tabellen Figuren und Formelbildern dokumentiert Alle Kapitel die sich mit der Molek l Festk rper metallorganischen bioanorganischen technischen und Kernchemie der 114 bisher bekannten Elemente befassen wurden auf den neuesten Stand der Wissenschaft gebracht Die zwei B nde sind auch als Set erh ltlich ISBN 978 3 11 051854 2 Band 1 umfasst dabei die Grundlagen der Chemie am Beispiel des Wasserstoffs sowie alle Kapitel zu Hauptgruppenelementen Auch erh ltlich Band 2 Nebengruppenelemente Lanthanoide Actinoide Transactinoide Anh nge ISBN 978 3 11 049573 7 Handbook of High-resolution Spectroscopy Martin Quack, Frederic Merkt, 2011-09-26 The field of High Resolution Spectroscopy has been considerably extended and even redefined in some areas Combining the knowledge of spectroscopy laser technology chemical computation and experiments Handbook of High Resolution Spectroscopy provides a comprehensive survey of the whole field as it presents itself today with emphasis on the recent

developments This essential handbook for advanced research students graduate students and researchers takes a systematic approach through the range of wavelengths and includes the latest advances in experiment and theory that will help and guide future applications The first comprehensive survey in high resolution molecular spectroscopy for over 15 years Brings together the knowledge of spectroscopy laser technology chemical computation and experiments Brings the reader up to date with the many advances that have been made in recent times Takes the reader through the range of wavelengths covering all possible techniques such as Microwave Spectroscopy Infrared Spectroscopy Raman Spectroscopy VIS UV and VUV Combines theoretical computational and experimental aspects Has numerous applications in a wide range of scientific domains Edited by two leaders in this field Provides an overview of rotational vibration electronic and photoelectron spectroscopy Volume 1 Introduction Fundamentals of Molecular Spectroscopy Volume 2 High Resolution Molecular Spectroscopy Methods and Results Volume 3 Special Methods Applications **Advances in Molecular Spectroscopy** A. Mangini, 2013-09-17 Advances in Molecular Spectroscopy Volume 3 provides information pertinent to the fundamental aspects of inorganic molecules and complexes This book covers a variety of topics including infrared spectrum polyatomic ions infrared emissions and Raman spectra Organized into five parts encompassing 72 chapters this volume begins with an overview of the infrared spectrum of pyridine This text then examines the results from studies of the infrared and Raman spectra of N2O4 in the solid and liquid phases at low temperatures Other chapters consider the infrared spectrum of a mixture of N2O3 and N2O4 which has been studied in the liquid phase from 2 to 25 and in the solid phase from 2 to 35 both at low temperatures. The final chapter describes the instrument developed for the measurement of rotatory dispersion and discusses some of the results obtained in the study of the complexes This book is a valuable resource for chemists

High-Resolution Microwave Spetroscopy of Radioactive Molecules Breier, Alexander A.,2019-12-20 Molecules containing radioactive nuclei are discussed in detail in this work aiming at their usage as tracers for nucleosynthesis processes in the present star generation So far these processes can be observed in the ray region via the decay of the radioactive atom The spatial resolution of the astronomical observations is low in most cases Here it is proposed that precise stellar positions in the sky can be achieved using low energetic photons emitted from molecular rotational or ro vibrational motion The aim of this thesis is to derive the rotational fingerprints of diatomic astrophysical relevant radioactive molecules from laboratory measurements of their stable counterparts In case of diatomic molecules this goal can be achieved by a mass independent Dunham approach This method has been successfully applied to reveal the spectra of the radioactive long lived species 26AIF 26AIH 26AIO 26AIS 32SiO 44TiO and 60FeO

Physical Principles of Far-Infrared Radiation ,1973-09-21 Physical Principles of Far Infrared Radiation
Rotational Spectra and Molecular Structure James E.

Wollrab,2013-10-22 Physical Chemistry A Series of Monographs Rotational Spectra and Molecular Structure covers the energy levels and rotational transitions This book is divided into nine chapters that evaluate the rigid asymmetric top

molecules and the nuclear spin statistics for asymmetric tops Some of the topics covered in the book are the asymmetric rotor functions rotational transition intensities classes of molecules nuclear spin statistics for linear molecules and symmetric tops and classical appearance of centrifugal and coriolis forces Other chapters deal with the energy levels and effects of centrifugal distortion as well as the internuclear distance and moments of inertia The discussion then shifts to the coriolis coupling effects on rotational constants and the perturbation treatment of vibration rotational Hamiltonian The last chapter is devoted to the examination of origin of the quadrupole interaction The book can provide useful information to chemists physicists electrical engineers students and researchers **Encyclopedia of Spectroscopy and Spectrometry** ,2010-04-09 The Second Edition of the Encyclopedia of Spectroscopy and Spectrometry pulls key information into a single source for guick access to answers and or in depth examination of topics SPEC 2 covers theory methods and applications for researchers students and professionals combining proven techniques and new insights for comprehensive coverage of the field The content is available in print and online via ScienceDirect the latter of which offers optimal flexibility accessibility and usability through anytime anywhere access for multiple users and superior search functionality No other work gives analytical and physical bio chemists such unprecedented access to the literature With 30% new content SPEC 2 maintains the authoritative balanced coverage of the original work while also breaking new ground in spectroscopic research Incorporates more than 150 color figures 5 000 references and 300 articles 30% of which are new for a thorough examination of the field Highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health Features a new co editor David Koppenaal of Pacific Northwest National Laboratory Washington USA whose work in atomic mass spectrometry has been recognized internationally Nuclear Physics. Part B ,1963-01-01 Nuclear Physics Part B Microwave Spectral Tables: Diatomic molecules, by P. F. Wacker and others United States. National Bureau of Standards. 1964

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