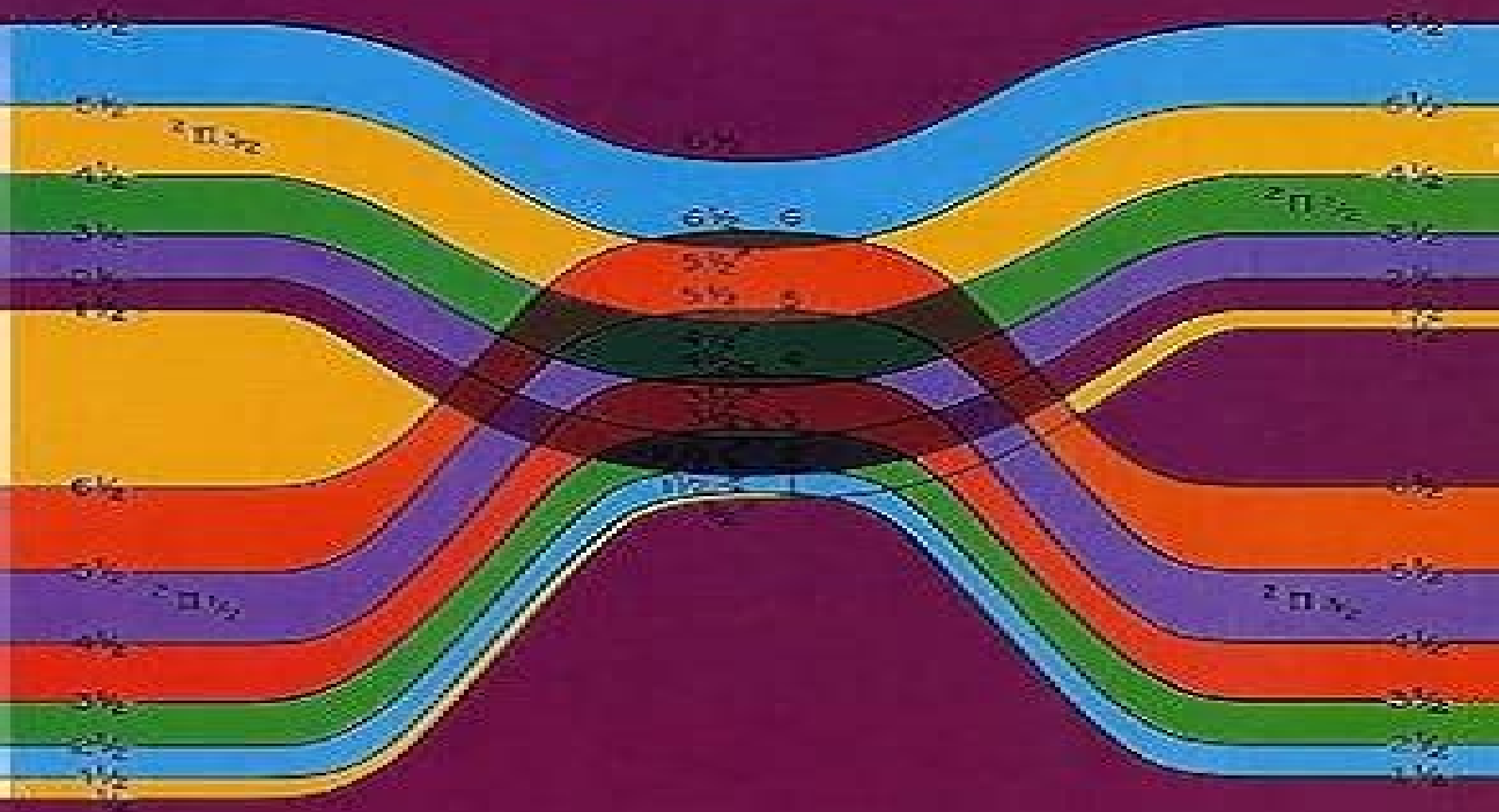


# MICROWAVE SPECTROSCOPY

C.H. Townes & A.L. Schawlow



# Microwave Spectroscopy A L Schawlow

**Chemical Society (Great Britain)**



## **Microwave Spectroscopy A L Schawlow:**

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 Microwave Spectroscopy [by] C.H. Townes [and] A.L. Schawlow Charles H. Townes, 1955

**Microwave Spectroscopy** Arthur L. Schawlow, Charles H. Townes, 1975 **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 *Structure of Free Polyatomic Molecules* Kozo Kuchitsu, 2013-03-09 This volume Structure of Free Polyatomic Molecules Basic Data contains frequently used data from the corresponding larger Landolt B rstein handbooks in a low price book for the individual scientists working in the laboratory Directories link to the more complete volumes in the library The book contains important information about a large number of semiconductors Sensing with Terahertz Radiation Daniel Mittleman, 2013-02-26 One aspect of the field of THz radiation is the marriage of microwave and optical techniques By its very nature THz radiation bridges the gap between the microwave and optical regimes The former can be characterized by the fact that most devices are comparable in size to the wavelength of the radiation As a result the propagation of energy in these devices is generally in the form of single mode or low order mode guided waves In contrast the optical and infrared ranges are generally characterized by beams containing many modes with dimensions much larger than the wavelength Of course there are exceptions to these rules notably the

single mode propagation of optical radiation in fibers Nonetheless the general description holds true Because of these fundamental differences it is natural that the techniques used in their implementation are quite distinct Much of the research in the THz field has been based on the melding of these disparate ideas      *Molecular Physics* Dudley Williams,2013-10-22

Methods of Experimental Physics Volume 3 Molecular Physics focuses on molecular theory spectroscopy resonance molecular beams and electric and thermodynamic properties The manuscript first considers the origins of molecular theory molecular physics and molecular spectroscopy as well as microwave spectroscopy electronic spectra and Raman effect The text then ponders on diffraction methods of molecular structure determination and resonance studies Topics include techniques of electron neutron and x ray diffraction and nuclear magnetic nuclear quadropole and electron spin resonance The publication takes a look at mass spectrometry and molecular beams including molecular structural applications chemical kinetics beam formation and detection molecular beam optics and spectroscopy The text also considers the electric properties of molecules and ultrasonic studies and thermodynamic properties of fluids The manuscript is a dependable reference for readers interested in molecular physics      **Fiftieth Anniversary, 1912-1962** Institute of Radio Engineers,1962      *National Bureau of Standards Report* United States. National Bureau of Standards,1959      **Treatise on Analytical Chemistry: Theory and practice.** v Izaak Maurits Kolthoff,Philip Juliber Elving,1964      *Microwave Spectroscopy* ,1952      *A Textbook of Physical Chemistry* Arther Adamson,2012-12-02 A Textbook of Physical Chemistry Second Edition provides both a traditional and theoretical approach in the study of physical chemistry The book covers subjects usually covered in chemistry textbooks such as ideal and non ideal gases the kinetic molecular theory of gases and the distribution laws and the additive physical properties of matter Also covered are the three laws of thermodynamics thermochemistry chemical equilibrium liquids and their simple phase equilibria the solutions of nonelectrolytes and heterogenous equilibrium The text is recommended for college level chemistry students especially those who are in need of a textbook for the subject      *Treatise on Analytical Chemistry: Theory and practice* Izaak Maurits Kolthoff,Philip J. Elving,1964      **The Nobel Prize Winners** Frank Northen Magill,1989      Methods of Experimental Physics Dudley Williams,1976      **Nuclear Physics** Luke C. L. Yuan,Chien-shiung Wu,1963      **Proceedings of the IRE.** Institute of Radio Engineers,1962      **Quarterly Reviews -- Chemical Society** Chemical Society (Great Britain),1957      **Quarterly Reviews** Chemical Society (Great Britain),1957      Introduction to Molecular Energies and Spectra Marlin D. Harmony,1971

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