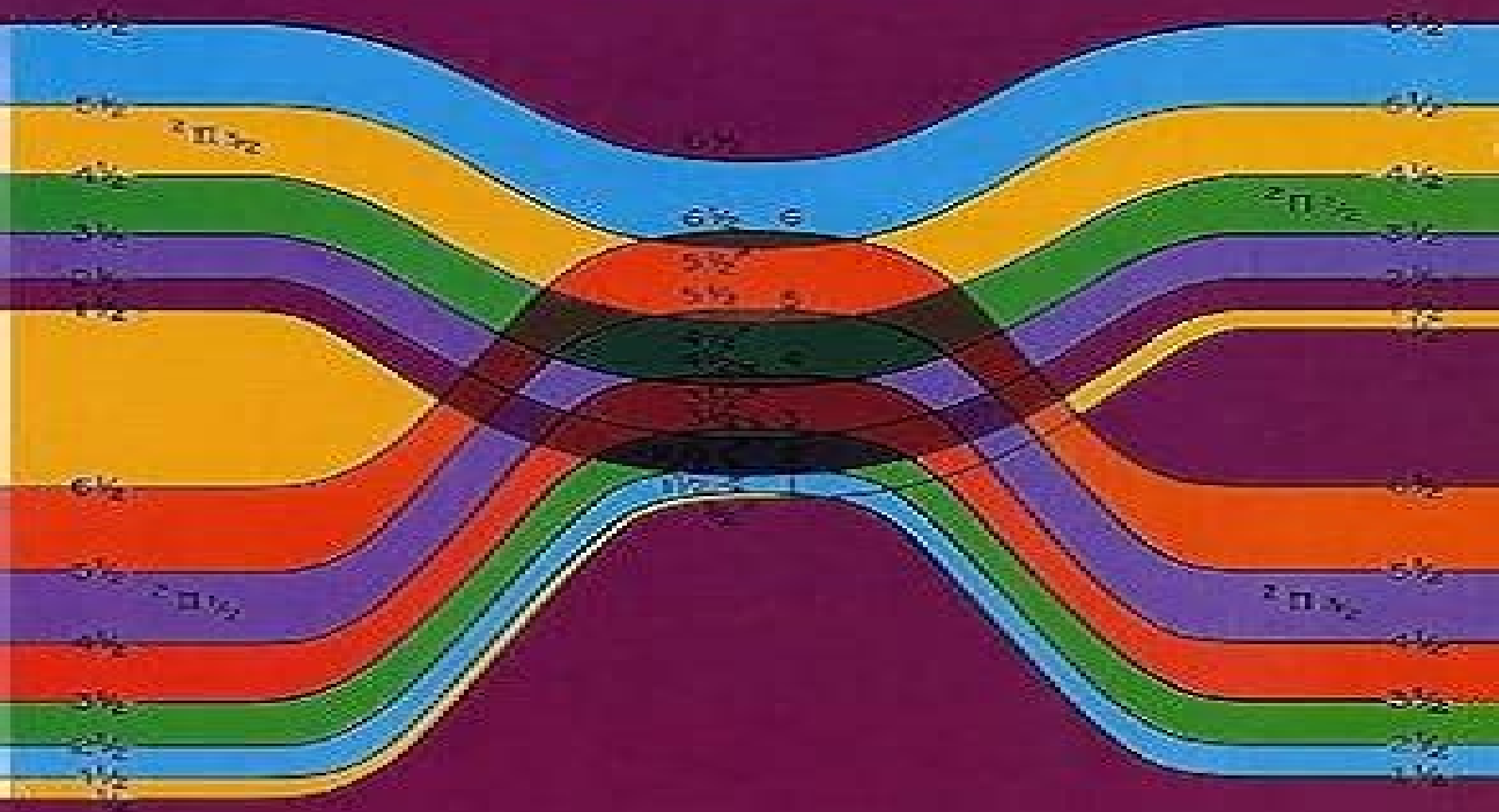


# MICROWAVE SPECTROSCOPY

C.H. Townes & A.L. Schawlow



# Microwave Spectroscopy A L Schawlow

**Izaak Maurits Kolthoff, Philip J. Elving**



## **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 rnstien 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

Microwave Spectroscopy A L Schawlow: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Microwave Spectroscopy A L Schawlow : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Microwave Spectroscopy A L Schawlow : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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