

# THE RED SYSTEM ( $A^2\Pi-X^2\Sigma$ ) OF THE CN MOLECULE

PHOTOGRAPHIC SPECTRA, INTENSITIES, AND ANISOTROPY OF THE RED  
SYSTEM OF THE CN MOLECULE BY CLAYTON AND JOHN W. PETERSON

# Red System Of The Cn Molecule

**SUMNER P.. PHILLIPS DAVIS (JOHN G.)**

A decorative graphic element consisting of a red and white circular shape, resembling a stylized arrow or a lens, positioned to the right of the author's name.

## Red System Of The Cn Molecule:

*RED SYSTEM OF THE CN MOLECULE*. SUMNER P., PHILLIPS DAVIS (JOHN G.),2021      *The Red System of the CN Molecule* Sumner P. Davis,1963      The Red System (A<sub>2</sub>[ $\pi$ ]-X<sub>2</sub>[ $\sigma$ ]) of the CN Molecule Sumner P. Davis,John Gardner Phillips,1963      **Molecular Spectra and Molecular Structure** K. Huber,2013-06-29 Since the publication in 1950 of Vol I Spectra of Diatomic Molecules of Molecular Spectra and Molecular Structure much progress has been made in the field While there have been some important refinements in the theory of diatomic molecular spectra most of the advances have been in the further exploration of individual spectra Not only has the number of molecules about which some spectroscopic data are available been increased by a factor of 2 to 3 but also the spectroscopic information about the molecules known in 1950 has been vastly extended This is due to the observation of new electronic states about three times as many as known before the enormous improvements in the accuracy of the constants of the states known in 1950 and the determination of higher order constants In view of the increasing use of spectroscopic information on diatomic molecules in other fields of physics in chemistry and in astrophysics it appeared desirable to prepare an up to date version of the table of molecular constants in the appendix of Vol I This updating proved to be far more time consuming than originally anticipated and it is only now 10 years that we are able to present such a table which instead after its initiation of the original 80 pages plus 30 pages of bibliography now fills a volume of 700 pages In the interest of economy and unlike the original version the new table has been produced by photo offset from the final manuscript      *Spectra of Atoms and Molecules* Peter F. Bernath,2020-04-20 This fourth edition of Peter Bernath's successful Spectra of Atoms and Molecules is designed to provide advanced undergraduate and graduate students a working knowledge of the vast field of spectroscopy Also of interest to chemists physicists astronomers atmospheric scientists and engineers this volume emphasizes the fundamental principles of spectroscopy with the primary goal of teaching the interpretation of spectra Features include a presentation of group theory as needed to understand spectroscopy detailed worked examples and a large number of excellent problems at the end of each chapter Bernath provides a large number of diagrams and spectra which have been specifically recorded for this book Molecular symmetry matrix representation of groups quantum mechanics and group theory are among the topics covered atomic rotational vibrational electronic and Raman spectra are analyzed as well Bernath's treatment clears the confusing topic of line strengths as needed for quantitative applications Responding to student requests the fourth addition features detailed and worked examples in each chapter This book has also been updated to include the 2018 CODATA revision of physical constants and a large number of corrections and clarifications New chapters on atmospheric and astronomical spectroscopy have been added Spectra of Atoms and Molecules demystifies spectroscopy by showing readers the intermediate steps in a derivation as well as the final result      *Technical Report - Jet Propulsion Laboratory, California Institute of Technology* Jet Propulsion Laboratory (U.S.),      The Swan System of the C<sub>2</sub> Molecule John G. Phillips,Sumner P.

Davis,2023-11-15      **Studies in Physical Gas Dynamics** ,1968      **The Red System of the Cn Molecule** Sumner P. Davis,John G. Phillips,2013-09      *NASA Technical Translation* ,1969      *Magnetic Atoms and Molecules* William Weltner,1989-01-01 This comprehensive graduate level text by a leading researcher in atomic and molecular spectroscopy explores the electron spin resonance theory of randomly oriented molecules I recommend it highly American Scientist 119 illustrations      **Molecular Spectra and Molecular Structure - Vol I** Gerhard Herzberg,2013-04-18 I have endeavoured to give a presentation which is readable by the beginner in the field and also will be useful to those who do or want to do research work in this field In order to assist the former I have frequently made use of small type for those sections that are not necessary for an understanding of the fundamentals For the benefit of those working in the field numerous references to original papers have been included A satisfactory presentation of molecular spectra and molecular structure is nowadays not possible without treating thoroughly apart from the empirical results the theoretical background also Therefore I have included as much of the theory of molecular spectra as is possible without going into the more difficult mathematical details A large number of diagrams graphical representations of eigenfunctions and potential curves as well as energy level diagrams serve to illustrate and to explain the theory On the other hand I have added numerous carefully selected spectrograms of bands and band systems some of which have been taken specially for this purpose in order to give an accurate idea of the experimental material that forms the basis of the developments      Handbook of Thermal Plasmas Maher I. Boulos,Pierre L. Fauchais,Emil Pfender,2023-02-20 This authoritative reference presents a comprehensive review of the evolution of plasma science and technology fundamentals over the past five decades One of this field s principal challenges has been its multidisciplinary nature requiring coverage of fundamental plasma physics in plasma generation transport phenomena under high temperature conditions involving momentum heat and mass transfer and high temperature reaction kinetics as well as fundamentals of material science under extreme conditions The book is structured in five distinct parts which are presented in a reader friendly format allowing for detailed coverage of the science base and engineering aspects of the technology including plasma generation mathematical modeling diagnostics and industrial applications of thermal plasma technology This book is an essential resource for practicing engineers research scientists and graduate students working in the field      NASA Technical Note ,1969      Molecules and Radiation Jeffrey I. Steinfeld,2005-06-10 This unified treatment introduces upper level undergraduates and graduate students to the concepts and methods of modern molecular spectroscopy and their applications to quantum electronics lasers and related optical phenomena Starting with a review of the prerequisite quantum mechanical background the text examines atomic spectra and diatomic molecules including the rotation and vibration of diatomic molecules and their electronic spectra A discussion of rudimentary group theory advances to considerations of the rotational spectra of polyatomic molecules and their vibrational and electronic spectra molecular beams masers and lasers and a variety of forms of spectroscopy including optical resonance spectroscopy

coherent transient spectroscopy multiple photon spectroscopy and spectroscopy beyond molecular constants The text concludes with a series of useful appendixes      **Contributions from the McDonald Observatory, Fort Davis, Texas, ...**  
 McDonald Observatory,1947      *Thermodynamic Properties Of Individual Substances* L. V. Gurvich,I. Veyts,1990-09-01  
      *NBS Technical Note* ,1970      **Physics of Comets** K. S. Krishna Swamy,1986 This book deals systematically with the physics of comets in light of present knowledge on various aspects of cometary phenomena and the problems that require further attention      **Transactions of the International Astronomical Union: Reports on Astronomy** C. de Jager,2012-12-06 This volume contains the fifteenth tri annual reports of the Presidents of the forty Commissions of the International Astronomical Union it refers to the progress in our discipline during the three years 1970 1971 and 1972 As compared to earlier volumes a gradual change in character is unmistakable The ever increasing flow of publications combined with the obvious necessity to keep the Reports at a reasonable size and price level has gradually forced the Commission Presidents to be more selective than before in drafting their Reports I have certainly stimulated them into that direction in order that Reports like these be valuable and lasting it seems imperative that the individual contributions have the character of a critical overall review where a fairly complete summary is given of the major developments and discoveries of the past three years and in which the broad developments and new trends be clearly outlined while at the same time essential problems for future research are identified With respect to the latter item I have suggested the Commission Presidents to add to their reports a brief section on scientific priorities for future research in the field of their Commissions In order to save space I have suggested to Commission Presidents that references to published papers are given on the basis of their number in the published issues of Astronomy and Astrophysics Abstracts For instance the indication 06 078 019 or AAA 06 078

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