

The background of the entire cover is a deep space image. It features several bright, colorful nebulae in shades of red, orange, yellow, and green. There are also numerous star trails, which are long, thin lines of light in various colors (white, blue, red) that appear to be moving across the dark sky. The overall effect is one of a vast, dynamic universe.

# **MOLECULAR COMPLEXES IN EARTH'S, PLANETARY, COMETARY, AND INTERSTELLAR ATMOSPHERES**

Editors

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Zdenek Slanina**

**World Scientific**

# Molecular Complexes In Earths Planetary Cometary And Interstellar Atmospheres

**Charles H. Langmuir, Wallace Broecker**



## **Molecular Complexes In Earths Planetary Cometary And Interstellar Atmospheres:**

Molecular Complexes in Earth's Planetary, Cometary and Interstellar Atmospheres Andrei A. Vigasin, Zdenek Slanina, 1998 This book introduces systematically the concept of weakly bound complexes into the broad field of atmospheric sciences To fill up the gap between our rapidly expanding knowledge of the individual properties of Van der Waals and hydrogen bonded molecules and our understanding of their role in the atmospheric processes an ensemble of related topics are covered by a team of expert co authors The general properties of the weakly bound molecular complexes or clusters are discussed as well as their distribution in the planetary atmospheres Collision induced and dimeric absorption and emission are considered in the context of atmospheric spectroscopy The advanced experimental techniques which enable us to study the spectroscopic features of molecular complexes in the gas phase or which are adsorbed are reviewed The role of molecular complexes in the cometary atmosphere the Earth mesosphere and the atmospheres of the giant planets and some of their satellites are also discussed in detail

**Molecular Complexes In Earth's, Planetary Cometary And Interstellar Atmospheres** Zdenek Slanina, Andrei A Vigasin, 1998-07-04 This book introduces systematically the concept of weakly bound complexes into the broad field of atmospheric sciences To fill up the gap between our rapidly expanding knowledge of the individual properties of Van der Waals and hydrogen bonded molecules and our understanding of their role in the atmospheric processes an ensemble of related topics are covered by a team of expert co authors The general properties of the weakly bound molecular complexes or clusters are discussed as well as their distribution in the planetary atmospheres Collision induced and dimeric absorption and emission are considered in the context of atmospheric spectroscopy The advanced experimental techniques which enable us to study the spectroscopic features of molecular complexes in the gas phase or which are adsorbed are reviewed The role of molecular complexes in the cometary atmosphere the Earth mesosphere and the atmospheres of the giant planets and some of their satellites are also discussed in detail

Types and Properties of Water - Volume I Martin Gaykovich Khublaryan, 2009-06-30 Types and Properties of Water in two volumes is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias These volumes deal with different parts of the hydrosphere and features of water as substance in its three phases Natural water is one of the most important substances for the maintenance of life on our planet The main part of the Earth's water is concentrated in the hydrosphere oceans lakes streams underground water and in the cryosphere all the snow and ice The atmosphere and living organisms also contain water but in minor quantities as compared to the whole hydrosphere Several types of water are in the Nature atmospheric water water in oceans seas coastal zones and estuaries in rivers reservoirs lakes and wetlands groundwater including soil waters glaciers icebergs and ground ice permafrost This set of volumes is designed to be a very authoritative reference for state of the art knowledge on the various aspects such as Characteristics of Water and Water Bodies in the

Natural Environment Properties of Atmospheric Water Properties of Oceans Inland Seas Coastal Zones and Estuaries Properties of Rivers Streams Lakes and Wetlands Properties of Soil Water and Groundwater Properties Of Glacial Iceberg And Permafrost Water These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Weakly Interacting Molecular Pairs: Unconventional Absorbers of Radiation in the Atmosphere** Claude Camy-Peyret, Andrei A. Vigasin, 2012-12-06 The Advanced Research Workshop entitled Weakly Interacting Molecular Pairs Unconventional Absorbers of Radiation in the Atmosphere was held in Abbaye de Fontevraud France from April 29 to May 3 2002 The meeting involved 40 researchers from 14 countries The goal of this meeting was to address a problem that the scientific community is aware of for many years Up now however the solution for this problem is far from satisfactory Pair effects are called unconventional in the title of this meeting In specific spectral domains and/or geophysical conditions they are recognized to play a dominant role in the absorption emission properties of the atmosphere Water vapor continuum absorption is among the most prominent examples Permanently improving accuracy of both laboratory studies and field observations requires better knowledge of the spectroscopic features attributable to molecular pairs which may form at equilibrium The Workshop was targeted both to clarify the pending questions and as far as feasible to trace the path to possible answers since the underlying phenomena are yet incompletely understood and since a reliable theory is often not available On the other hand the lack of precise laboratory data on bimolecular absorption is often precluding the construction of reliable theoretical models Ideally the knowledge accumulated in the course of laboratory studies should correlate with the practical demands from those who are carrying out atmospheric field measurements and space observations

**Atmospheric Evolution on Inhabited and Lifeless Worlds** David C. Catling, James F. Kasting, 2017-04-13 As the search for Earth like exoplanets gathers pace in order to understand them we need comprehensive theories for how planetary atmospheres form and evolve Written by two well known planetary scientists this text explains the physical and chemical principles of atmospheric evolution and planetary atmospheres in the context of how atmospheric composition and climate determine a planet's habitability The authors survey our current understanding of the atmospheric evolution and climate on Earth on other rocky planets within our Solar System and on planets far beyond Incorporating a rigorous mathematical treatment they cover the concepts and equations governing a range of topics including atmospheric chemistry thermodynamics radiative transfer and atmospheric dynamics and provide an integrated view of planetary atmospheres and their evolution This interdisciplinary text is an invaluable one stop resource for graduate level students and researchers working across the fields of atmospheric science geochemistry planetary science astrobiology and astronomy

**Interaction-induced Electric Properties of van der Waals Complexes** Victor N. Cherepanov, Yulia N. Kalugina, Mikhail A. Buldakov, 2016-11-16 This brief explains the theory of the interaction induced electrical properties of van der Waals complexes It focuses on the

interaction induced electrical dipole moments polarizabilities and first hyperpolarizabilities of atom atomic atom molecular and molecular molecular van der Waals complexes      **Handbook of Fullerene Science and Technology** Xing Lu, Takeshi Akasaka, Zdeněk Slanina, 2022-09-24 Nanocarbon chemistry and physics is a fast developing broad research area the Nobel prizes in 1996 and 2010 awarded to two key discoveries in the field and several other nanocarbon achievements of comparable importance Owing to this rapid growth the nanocarbon landscape fundamentally changes every few years creating a need to survey the field on a regular basis to update the books that have become incomplete or even obsolete As such this book focuses on fullerenes and metallofullerenes and also on the related areas of nanotubes and graphenes All the covered research topics provide important fundamental knowledge for the natural sciences but also for applications in molecular electronics superconductivity catalysis photovoltaics and medical diagnostics The current nanocarbon research activities have particularly high application potential in the conversion of solar energy future molecular memories non conventional materials for optoelectronics and new treatments for civilization diseases Offering a truly up to date critical survey of nanocarbon science its concepts and highlights it follows the concept of a handbook it addresses key topics systematically from historical background methodological aspects current important issues and application potential all supplied with extensive referencing With individual chapters written by leading experts with extensive research experience it is a comprehensive reference resource for graduate students and active researchers alike      **Fullerenes** Karl M. Kadish, Rodney S. Ruoff, 2000-07-06 Fullerenes a guide to the current state of knowledge in the field The last decade has seen an explosion of research into the chemical and physical properties of a promising new class of carbon based materials known as fullerenes Karl Kadish and Rodney Ruoff two highly recognized leaders in the fullerene and nanotube research community edit a comprehensive and much needed survey of this important and rapidly evolving field Contributions by experts in diverse areas of chemistry physics pharmacology materials science and chemical engineering provide an excellent introduction to fullerenes and highlight their considerable potential in such cutting edge applications as semiconductor materials new pharmaceutical compounds and polymers From the electrochemistry of fullerenes to molecular and solid C<sub>36</sub> this book offers a remarkably fresh and authoritative look at some of the hottest research topics today including Organic functionalization of fullerenes Photophysical properties of different types of fullerenes Polyfunctional polymer derivatives of fullerenes The theory and production of endohedral metallofullerenes Fullerene surface interactions Superconductivity in fullerenes Synthesis of materials incorporated within carbon nanotubes      Spectroscopy Roy H. Williams, 2016-04-19 This title includes a number of Open Access chapters Spectroscopy is a powerful technique that utilizes the interaction of light with matter Analysis of various spectra can yield important physical characteristics of matter including chemical composition temperature luminosity mass and more The uses and implications of spectroscopy are very      *Planetary Exploration Through Year 2000* NASA Advisory Council. Solar System Exploration Committee, 1986      Treatise on Geophysics

,2015-04-17 Treatise on Geophysics Second Edition is a comprehensive and in depth study of the physics of the Earth beyond what any geophysics text has provided previously Thoroughly revised and updated it provides fundamental and state of the art discussion of all aspects of geophysics A highlight of the second edition is a new volume on Near Surface Geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution Additional features include new material in the Planets and Moon Mantle Dynamics Core Dynamics Crustal and Lithosphere Dynamics Evolution of the Earth and Geodesy volumes New material is also presented on the uses of Earth gravity measurements This title is essential for professionals researchers professors and advanced undergraduate and graduate students in the fields of Geophysics and Earth system science Comprehensive and detailed coverage of all aspects of geophysics Fundamental and state of the art discussions of all research topics Integration of topics into a coherent whole

**Bioinorganic Photochemistry** Grazyna Stochel,Zofia Stasicka,Malgorzata Brindell,Wojciech Macyk,Konrad Szacilowski,2009-06-10 Bioinorganic photochemistry is a rapidly evolving field integrating inorganic photochemistry with biological medical and environmental sciences The interactions of light with inorganic species in natural systems and the applications in artificial systems of medical or environmental importance form the basis of this challenging inter disciplinary research area Bioinorganic Photochemistry provides a comprehensive overview of the concepts and reactions fundamental to the field illustrating important applications in biological medical and environmental sciences Topics covered include Cosmic and environmental photochemistry Photochemistry of biologically relevant nanoassemblies Molecular aspects of photosynthesis Photoinduced electron transfer in biosystems Modern therapeutic strategies in photomedicine The book concludes with an outlook for the future of environmental protection discussing emerging techniques in the field of pollution abatement and the potential for bioinorganic photochemistry as a pathway to developing cheap environmentally friendly sources of energy Written as an authoritative guide for researchers involved in the development of bioinorganic photochemical processes Bioinorganic Photochemistry is also accessible to scientists new to the field and will be a key reference source for advanced courses in inorganic and bioinorganic chemistry

**Fungal Biology in the Origin and Emergence of Life** David Moore,2013-01-24 Contents 1 *American Book Publishing Record Cumulative* 1998 R R Bowker Publishing,1999-03 **Optics and Spectroscopy** ,2006 [Astrobiology: Future Perspectives](#) P.

Ehrenfreund,W.M. Irvine,T. Owen,Luann Becker,Jen Blank,J.R. Brucato,Luigi Colangeli,Sylvie Derenne,Anne Dutrey,Didier Despois,Antonio Lazcano,Francois Robert,2006-03-05 Astrobiology a new exciting interdisciplinary research field seeks to unravel the origin and evolution of life wherever it might exist in the Universe The current view of the origin of life on Earth is that it is strongly connected to the origin and evolution of our planet and indeed of the Universe as a whole We are fortunate to be living in an era where centuries of speculation about the two ancient and fundamental problems the origin of life and its prevalence in the Universe are being replaced by experimental science The subject of Astrobiology can be

approached from many different perspectives This book is focused on abiogenic organic matter from the viewpoint of astronomy and planetary science and considers its potential relevance to the origins of life on Earth and elsewhere Guided by the review papers in this book the concluding chapter aims to identify key questions to motivate future research and stimulate astrobiological applications of current and future research facilities and space missions Today's rich array of new spacecraft telescopes and dedicated scientists promises a steady flow of discoveries and insights that will ultimately lead us to the answers we seek

*Astronomical Origins of Life* B. Hoyle, N.C. Wickramasinghe, 2012-12-06 Living material contains about twenty different sorts of atom combined into a set of relatively simple molecules Astrobiologists tend to believe that abiotic material will give rise to life in any place where these molecules exist in appreciable abundances and where physical conditions approximate to those occurring here on Earth We think this popular view is wrong for it is not the existence of the building blocks of life that is crucial but the exceedingly complicated structures in which they are arranged in living forms The probability of arriving at biologically significant arrangements is so very small that only by calling on the resources of the whole universe does there seem to be any possibility of life originating a conclusion that requires life on the Earth to be a minute component of a universal system Some think that the hugely improbable transition from non living to living material can be achieved by dividing the transition into many small steps calling on a so called evolutionary process to bridge the small steps one by one This claim turns on semantic arguments which seek to replace the probability for the whole chain by the sum of the individual probabilities of the many steps instead of by their product This is an error well known to those bookies who are accustomed to taking bets on the stacking of horse races But we did not begin our investigation from this point of view

**How to Build a Habitable Planet** Charles H. Langmuir, Wallace Broecker, 2012-07-22 Rev and expanded ed of How to build a habitable planet Wallace S Broecker 1985

**Prebiotic Photochemistry** Franz Saija, Giuseppe Cassone, 2021-06-09 Photochemistry is an important facet in the study of the origin of life and prebiotic chemistry Solar photons are the unique source of the large amounts of energy likely required to initiate the organisation of matter to produce biological life The Miller Urey experiment simulated the conditions thought to be present on the early earth and supported the hypothesis that under such conditions complex organic compounds could be synthesised from simpler inorganic precursors The experiment inspired many others including the production of various alcohols aldehydes and organic acids through UV photolysis of water vapour with carbon monoxide This book covers the photochemical aspects of the study of prebiotic and origin of life chemistry an ideal companion for postgraduates and researchers in prebiotic chemistry photochemistry photobiology chemical biology and astrochemistry

*The Emergence of Life on Earth* Iris Fry, 2000 How did life emerge on Earth Is there life on other worlds These questions until recently confined to the pages of speculative essays and tabloid headlines are now the subject of legitimate scientific research This book presents a unique perspective a combined historical scientific and philosophical analysis which does justice to the complex nature of the subject The book s

first part offers an overview of the main ideas on the origin of life as they developed from antiquity until the twentieth century The second more detailed part of the book examines contemporary theories and major debates within the origin of life scientific community Topics include Aristotle and the Greek atomists conceptions of the organism Alexander Oparin and J B S Haldane s 1920s breakthrough papers Possible life on Mars



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