

Molecules In Astrophysics Probes And Processes

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molecules are found in a large variety of astronomical environments ranging from comets in the solar system to galaxies at high redshift this book brings together astronomers physicists and chemists to discuss the use of molecules as probes of astrophysical parameters explore their role in the evolution of astronomical objects and study the basic chemical processes that occur in space

a few years after the publication of the physics of star formation and early stellar

evolution we received a request from the publisher for an up dated second edition of this popular reference book as originally intended the volume had proved to be a useful text book for graduate astronomy courses and seminars which dealt with topics related to stellar origins the book was based on a series of lectures delivered by a distinguished group of leading researchers at a nato advanced study institute asi held in may 1990 on the island of crete greece the primary goal of the asi was in fact to produce a book which would simultaneously provide a broad and systematic overview of as well as a rigorous introduction to the fundamental physics and astronomy at the heart of modern research in star formation and early stellar evolution however by 1995 concern had arisen among those who used the text as a reference for graduate seminars and courses that the book would need to be updated to stay abreast of the discoveries and progress in this rapidly evolving field after some discussion we concluded that a new edition of the book was warranted and that the goal of producing a new edition would be best accomplished by organizing a second asi in crete to review the progress in star formation research

proceedings of the 178th symposium of the international astronomical union held in leiden the netherlands july 15 1996

interstellar dust meteorites interplanetary dust particles idp s the zodiacal light comets comet dust where do they come from what are they made of how do they evolve and finally are there connections between them these are the questions discussed in this volume by some of the world s outstanding experts in their respective fields the techniques used for studying the small solid objects of space are thoroughly discussed some of the methods involve a synthetic approach using the laboratory to create analog environments and materials which are believed to resemble those in space others use direct laboratory methods with state of the art analytical tools to study the material of the objects themselves meteorites idp s and others apply the latest in astronomical facilities to provide quantitative data on the material properties of the solids which can only be deduced from remote observations these are compared with the laboratory results in one instance there was a possibility to study a solar system body in situ and that was the case of comet halley and some of the results of these studies obtained from space laboratories launched to meet it are discussed here finally there are theoretical papers which are aimed at bridging the results of observational and laboratory methods this book is recommended to senior scientists as well as graduate students who wish to pursue research in interstellar and solar system astronomy and their connections

this years volume begins with a career retrospective by astrophysicist h c van de hulst in which he describes the beginnings of radio astronomy his experiences at the yerkes and leiden observatories his work in cospar and the joy he found in tormenting astronomy students with the socratic method other contributions cover type ia supernovae and the hubble constant detection of extrasolar giant planets first results from hipparcos radio emission from solar flares star formation in galaxies along the hubble sequence herbig ae be stars the lyman alpha forest in the spectra of quasistellar objects chemical evolution of star forming regions carbon stars dwarf galaxies of the local group astronomical searches for earth like planets modeling extragalactic jets and simulations of structure formation in the universe annotation copyrighted by book news inc portland or

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astronomers physicists and chemists to discuss the use of molecules as probes of astrophysical parameters explore their role in the evolution of astronomical objects and study the basic chemical processes that occur in space the enormous progress in observational techniques is illustrated by studies of the physics and chemistry on scales comparable to the protosolar nebulae around high and low mass forming stars and planetary systems elegant new experimental techniques for the measurement of gas phase reactions at low temperatures the analysis of spectra and the investigation of surface adsorbates on interplanetary dust particles and meteorites are presented the importance of accurate quantum chemical calculations is emphasized present knowledge of the composition of dust grains and polycyclic aromatic hydrocarbons is summarized other topics include models and observations of jets and outflows photon and x ray dominated regions masers in and outside our galaxy the comet d shoemaker levy collision with jupiter the envelopes and photospheres of late type stars including brown dwarfs diffuse and translucent clouds and external galaxies ranging from the nearby magellanic clouds to distant quasar absorption line systems and starburst galaxies at the edge of the universe

the principal motivations for establishing the icamdata conference series are to provide a focal point for intensive interactions between atomic and molecular data producers compliers and users and to provide a forum to discuss major issues which are highlighted in this volume both theoretical and experimental approaches are reviewed and cover a broad spectrum of topics including electron impact with atoms and molecules atomic structure and transition probabilities heavy particle collisions quantum chemistry and thermochemical data most papers focus not only on the means of production of data but also on providing some idea of the accuracy of the data produced the third aspect of the conference examined closely the various databases around the world

published in three volumes this comprehensive reference work brings together in a single source for the first time a detailed presentation of the most important theoretical concepts and methods for the study of molecules and molecular systems the logical format of the handbook allows the reader to progress from the foundations of the field to the most important and exciting areas of current research edited and written by an outstanding international team and containing over 100 articles written by more than 50 contributors it will be invaluable for both the expert researcher and the graduate student or postdoctoral worker active in any of the broad range of fields where these concepts and methods are important comprises three themed volumes fundamentals molecular electronic structure molecules in the physico chemical environment spectroscopy dynamics and bulk properties presents detailed articles covering the key topics presented in a didactic manner focuses both on theory and the relation of experiment to theory volume 1 fundamentals presents the foundations of molecular physics and quantum chemistry it consists of 7 parts arranged as follows part 1 introduction part 2 elements of quantum mechanics part 3 orbital models for atomic molecular and crystal structure part 4 symmetry groups and molecular structure part 5 second quantization and many body methods part 6 approximate separation of electronic and nuclear motion part 7 quantum electrodynamics of atoms and molecules the central problem of molecular physics and quantum chemistry is the description of atomic and molecular electronic structure the development of appropriate models for the description of the effects of electron correlation and of relativity are key components of the analysis volume 2 molecular electronic structure addresses these topics and consists of 7 parts arranged as follows part 1 approximation methods part 2 orbital models and generalized product functions part

3 electron correlation part 4 relativistic molecular electronic structure part 5 electronic structure of large molecules part 6 computational quantum chemistry part 7 visualization and interpretation of molecular electronic structure in reality no molecular system exists in isolation molecules interact with other atoms and molecules and with their environment volume 3 molecules in the physico chemical environment spectroscopy dynamics and bulk properties consists of 7 parts arranged as follows part 1 response theory and propagator methods part 2 interactions between molecules part 3 molecules in different environments part 4 molecular electronic spectra part 5 atomic spectroscopy and molecular vibration rotation spectroscopy part 6 molecular dynamics and dynamical processes part 7 bulk properties

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