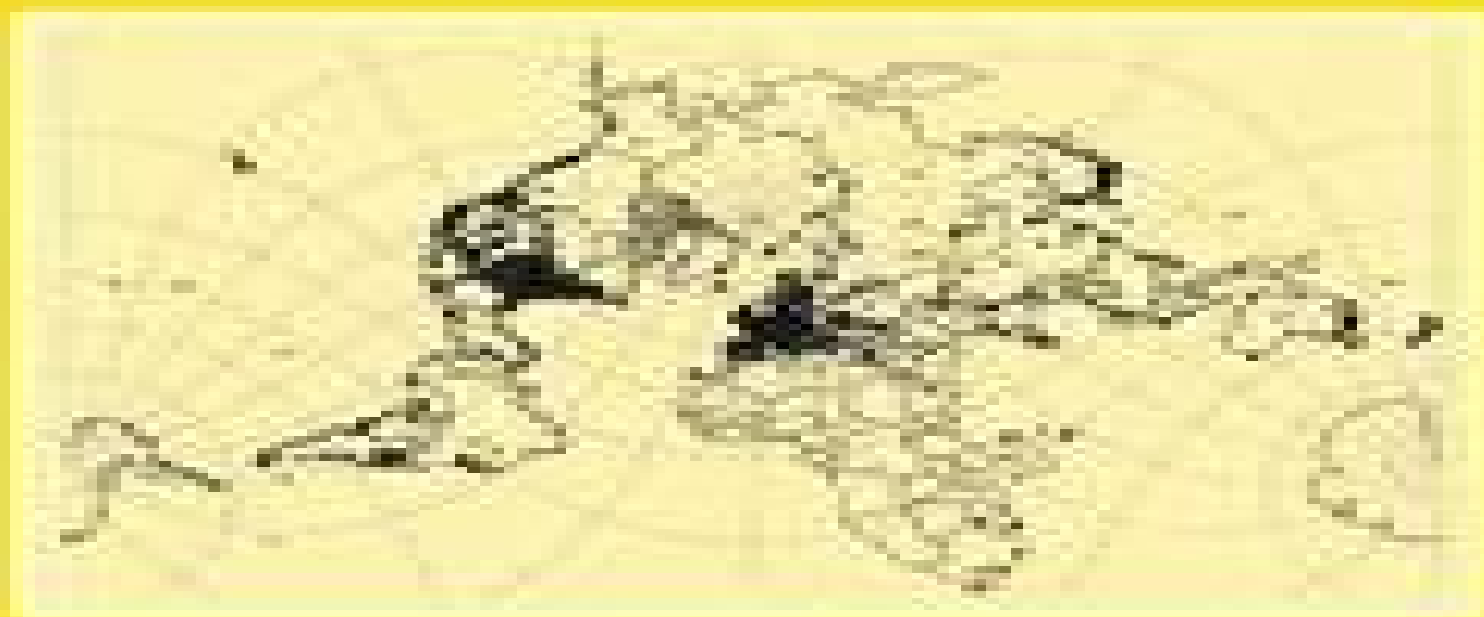




ACTIVITIES AND RESEARCH IN ASTRONOMY
AND SPACE SCIENCE IN THE EUROPEAN UNION

ORGANIZATIONS AND STRATEGIES IN ASTRONOMY III

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ACTIVITIES AND RESEARCH IN ASTRONOMY AND SPACE SCIENCE

Organizations And Strategies In Astronomy Iii

George Contopoulos



Organizations And Strategies In Astronomy Iii:

Organizations and Strategies in Astronomy Andre Heck, 2012-12-06 I am most grateful to Andre Heck for his invitation to write a foreword to OSA Volume 4 I will use this valued opportunity to emphasise those topics in Vol 4 which I consider important even if other topics may be of even greater importance in the universal scale of things At the outset let me say that I commend Vol 4 to its readers it contains much of very great interest for organisations and strategies in astronomy A topic which I consider to be of very great importance at this time is Adverse Environmental Impact on Astronomy There are two papers on this topic in OSA 4 Cohen on Strategies for Protecting Radio Astronomy and Schwarz on Light Pollution Control The growth in the extent of use the power and spectral demand for radio transmission continues to increase virtually exponentially The impact on the listening services such as radio astronomy has been severe Only by creativity in developing new techniques for radio noise including legal transmissions reduction and by participating fully in the allocation process for radio frequencies has radio astronomy developed to the powerful investigative tool it is today

Organizations and Strategies in Astronomy 6 Andre Heck, 2006-10-14 When I was a child growing up in South America I often went camping in the wild and hence had direct access to the wondrous Southern sky the Southern Cross was all mine at the time Little did I know then that the study of the sky would take such a huge importance in my life and that in the end astronomy and astrophysics would in many ways become my country and my religion I have lived in several different countries and when asked my nationality I am always very tempted to reply astronomer I started as a theorist and my only dream in my youth was to spend nights thinking and calculating with paper and pencil and to have the impression by dawn that I had understood something new So at the time astronomy was seen or dreamt by me as a solitary endeavour with periodic encounters with my wise adviser and professors it is this model that I adopted when doing my PhD work My generation has lived through many revolutions of all kinds Those in astronomy I believe remain particularly remarkable and I am a true product of them Now I elect to live and work in large organizations and to share my endeavours with many people And I relish the series of Andre Heck on Organizations and Strategies in Astronomy which help us recover our memories reconstitute our own story and read with glee about our neighbouring or far away colleagues

Organizations and Strategies in Astronomy 7 Andre HECK, 2007-09-18 Astronomy is the most ancient science humans have practiced on Earth It is a science of extremes and of large numbers extremes of time from the big bang to infinity of distances of temperatures of density and masses of magnetic field etc It is a science which is highly visible not only because stars and planets are accessible in the sky to the multitude but also because the telescopes themselves are easily distinguishable usually on top of scenic mountains and also because their cost usually represent a substantial proportion of the national budget and of the taxpayers' contribution to that budget As such astronomy cannot pass unnoticed It touches on the origins of matter of the Universe where we live on life and on our destiny It touches on philosophy as well as on religion Astronomy is the direct c

tact of humankind with its origins and the immensity of universal nature. It is indeed a science of observation where experimentation is practically possible and which is ruled by mathematics, physics, chemistry, statistical analysis and modelling while offering the largest number of verifications of the most advanced theories of fundamental physics such as general relativity and gravitation. At the beginning of the 21st century, astronomy is clearly a multidisciplinary activity touching on all aspects of science. It is therefore logical that in the past and still now, astronomy has attracted the most famous scientists, be they pure observers, mathematicians, physicists, biologists, experimentalists and even politicians.

Organizations and Strategies in Astronomy André Heck, 2001 Dynamical Systems and Cosmology A.A. Coley, 2013-04-17 Dynamical systems theory is especially well suited for determining the possible asymptotic states at both early and late times of cosmological models, particularly when the governing equations are a finite system of autonomous ordinary differential equations. In this book, we discuss cosmological models as dynamical systems with particular emphasis on applications in the early Universe. We point out the important role of self-similar models. We review the asymptotic properties of spatially homogeneous perfect fluid models in general relativity. We then discuss results concerning scalar field models with an exponential potential, both with and without barotropic matter. Finally, we discuss the dynamical properties of cosmological models derived from the string effective action. This book is a valuable source for all graduate students and professional astronomers who are interested in modern developments in cosmology.

Adventures in Order and Chaos George Contopoulos, 2007-09-21 For many years I was organizing a weekly seminar on dynamical astronomy and I used to make some historical remarks on every subject, including some anecdotes from my contacts with many leading scientists. Over the years, I described also the development of various subjects and the emergence of new ideas in dynamical astronomy. Then several people prompted me to write down these remarks, which cannot be found in papers or books. Thus, I decided to write this book, which contains my experiences over the years. I hope that this book may be helpful to astronomy students all over the world. During my many years of teaching as a visiting professor in American Universities (1962-1994: Yale, Harvard, MIT, Cornell, Chicago, Maryland and Florida), I was impressed by the quality of my graduate students. Most of them were very bright, asking penetrating questions and preparing their homework in a perfect way. In a few cases, instead of a final examination, I assigned to them some small research projects and they presented their results at the end of the course. They were excellent in preparing the appropriate slides and in presenting their results in a concise and clear way.

Solar Magnetic Phenomena A. Hanslmeier, A. Veronig, M. Messerotti, 2006-03-30 The concept of summerschools and workshops at the Kanzelhöhe Solar Observatory, Karnten, Austria, devoted to topics in solar physics, has been proven to be extremely successful and thus, in August-September 2003, the third combined summerschool and workshop was held there. This book contains the proceedings of the Summerschool and Workshop Solar Magnetic Phenomena, held from 25 August to 5 September 2003 at the Solar Observatory Kanzelhöhe, which belongs to the Institute for Geophysics, Astrophysics and Meteorology of the University of Graz, Austria. The book contains the

contributions from six invited lecturers They give an overview on the following topics observations of the photosphere and chromosphere solar observations and theory coronal mass ejections and the relevance of magnetic helicity high energy radiation from the Sun the physics of solar prominences and highlights from the SOHO mission The lectures contain about 25 to 30 pages each and provide a valuable introduction to the topics mentioned above The comprehensive lists of references at the end of each contribution enable the interested reader to go into more detail The second part of the book contains contributed papers These papers were presented and discussed in the workshop sessions during the afternoons The sessions stimulated intensive discussions between the participants and lecturers

High-Velocity Clouds Hugo van Woerden, Bart Wakker, Ulrich Schwarz, Klaas de Boer, 2006-01-28 On the occasion of the retirement of Ulrich Schwarz a symposium was held in Groningen in May of 1996 celebrating his contributions to the study of the interstellar medium including his work on the high velocity clouds The coming together of many specialists in the latter field prompted the idea of compiling a book containing their contributions and summarizing the status of our understanding of the high velocity cloud phenomenon This seemed especially worthwhile at the time since many exciting developments were taking place After the discovery of some H I clouds with high velocities about 40 years ago the subject had been dominated by 21 cm observations of H I emission Starting in the mid 1980s much progress was being made because of the availability of new instruments such as large ground based optical telescopes and UV observatories in space The connections between the work on high velocity clouds and other studies of the properties of the hot interstellar medium also became clearer

Solar and Space Weather Radiophysics D.E. Gary, C.U. Keller, 2006-01-20 This volume is the outgrowth of several international meetings to discuss a vision for the future of solar radio physics the development of a new radio instrument From these discussions the concept for the Frequency Agile Solar Radiotelescope FASR was born Most of the chapters of this book are based on invited talks at the FASR Science Workshop held in Greenbank WA in May 2002 and a special session on Solar and Space Weather Radiophysics held at the 200th American Astronomical Society meeting held in Albuquerque NM in June 2002 Although many of the chapters deal with topics of interest in planning for FASR other topics in Solar and Space Weather Radiophysics such as solar radar and interplanetary scintillation are covered to round out the discipline The authors have been asked to write with a tutorial approach to make the book useful to graduate students and scientists new to radio physics This book is more than a compilation of FASR science topics The FASR instrument concept is so revolutionary by extending capability by an order of magnitude in several dimensions at once frequency coverage spatial resolution dynamic range time resolution polarization precision that it challenges scientists to think in new ways The authors of the following chapters have been tasked not only with reviewing the current state of the field but also with looking to the future and imagining what is possible Radio emission is extremely complex because it is generated so readily and every imaginable plasma parameter affects it This is both its great strength and its weakness

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

Cosmic Gamma-Ray Sources K.S. Cheng, Gustavo E.

Romero, 2012-11-03 Gamma ray astronomy has undergone an enormous progress in the last 15 years The success of satellite experiments like NASA s Compton Gamma Ray Observatory and ESA s INTEGRAL mission as well as of ground based instruments have open new views into the high energy Universe Different classes of cosmic gamma ray sources have been now detected at different energies in addition to young radio pulsars and gamma ray bursts the classical ones The new sources include radio quiet pulsars microquasars supernova remnants starburst galaxies radio galaxies flat spectrum radio quasars and BL Lacertae objects A large number of unidentified sources strongly suggests that this brief enumeration is far from complete Gamma ray bursts are now established as extragalactic sources with tremendous energy output There is accumulating evidence supporting the idea that massive stars and star forming regions can accelerate charged particles up to relativistic energies making them gamma ray sources Gamma ray astronomy has also proved to be a powerful tool for cosmology imposing constraints to the background photon fields that can absorb the gamma ray flux from distant sources All this has profound implications for our current ideas about how particles are accelerated and transported in both the local and distant Universe The evolution of our knowledge on the gamma ray sky has been so fast that is not easy for the non specialist scientist and the graduate student to be aware of the full potential of this field or to grasp the fundamentals of a given topic in order to attempt some original contribution

Supermassive Black Holes in the Distant Universe A.J.

Barger, 2013-11-09 Quasars and the menagerie of other galaxies with unusual nuclei now collectively known as Active Galactic Nuclei or AGN have in one form or another sparked the interest of astronomers for over 60 years The only known mechanism that can explain the staggering amounts of energy emitted by the innermost regions of these systems is gravitational energy release by matter falling towards a supermassive black hole a black hole whose mass is millions to billions of times the mass of our Sun AGN emit radiation at all wavelengths X rays originating at a distance of a few times the

event horizon of the black hole are the emissions closest to the black hole that we can detect thus X rays directly reveal the presence of active supermassive black holes Oftentimes however the supermassive black holes that lie at the centers of AGN are cocooned in gas and dust that absorb the emitted low energy X rays and the optical and ultraviolet light hiding the black hole from view at these wavelengths Until recently this low energy absorption presented a major obstacle in observational efforts to map the accretion history of the universe In 1999 and 2000 the launches of the Chandra and XMM Newton X ray Observatories finally broke the impasse The impact of these observatories on X ray astronomy is similar to the impact that the Hubble Space Telescope had on optical astronomy The astounding new data from these observatories have enabled astronomers to make enormous advances in their understanding of when accretion occurs

Soft X-Ray Emission from Clusters of Galaxies and Related Phenomena R. Lieu, Jonathan Mittaz, 2013-11-09 Since the discovery of the cluster soft excess CSE over eight years ago its properties and origin have been the subject of debate With the recent launch of new missions such as XMM Newton and FUSE we are beginning to answer some of the complex issues regarding the phenomenon This conference proceedings is an attempt to bring together the latest research results and covers both observational and theoretical work on the CSE and related topics One of the main topics is the possible relationship between the CSE and the warm hot intergalactic medium WHIM which is believed to harbor 50% of the baryons in the near Universe New data from both XMM Newton and FUSE have indicated a possible causal link between the WHIM and CSE Evidence is based on the apparent detection of O VII emission lines in the soft excess spectrum of the outskirts of several clusters as well as reports of absorption lines at local and higher redshifts seen in the spectra of distant sources as signature of the WHIM However while there has been considerable optimism in attributing a substantial fraction of the cluster soft excess flux to WHIM emission other work shows that for example the amount of WHIM material predicted by theoretical simulations falls way short of that necessary to account for the CSE Other work indicates that at the cores of some cluster this excess emission is so strong it is impossible to invoke the thermal model without at the same time enlisting radically new physics Thus alternative interpretations involving non thermal processes are also reported and being pursued in earnest Whatever the origin of CSE may turn out to be results in this book show that it has become beyond reasonable doubt that the phenomenon itself is observationally established This book reports the scientific progress made by bringing together scientists from a wide range of disciplines It clearly demonstrates the importance of such meetings and participants if we are to solve this puzzle This volume is aimed at scientists and graduate students in astronomy who want to learn about the latest results on cluster soft excess observations and theoretical implications

Penetrating Bars through Masks of Cosmic Dust David L. Block, Ivânio Puerari, K. C. Freeman, R. Groess, Elizabeth K. Block, 2013-04-17 THE EDITORS DAVID L BLOCK AND KENNETH C FREEMAN SOC CO CHAIRS IVANIO PUERARI ROBERT GROESS AND LIZ K BLOCK 1 Harvard College Observatory 1958 The past century has truly brought about an explosive period of growth and discovery for the physical sciences as a whole

and for astronomy in particular Galaxy morphology has reached a renaissance The year 1958 The date October 1 The venue Harvard College Observatory The lecturer Walter Baade With amazing foresight Baade penned these words Young stars supergiants and so on make a terrific splash lots of light The total mass of these can be very small compared to the total mass of the system Dr Layzer then asked the key question the discussion raises the point of what this classification would look like if you were to ignore completely all the Population I and just focus attention on the Population II We stand on the shoulders of giants The great observer E E Barnard in his pioneering efforts to photograph the Milky Way devoted the major part of his life to identifying and numbering dusty holes and dust lanes in our Milky Way No one could have dreamt that the pervasiveness of these cosmic dust masks not only in our Galaxy but also in galaxies at high redshift is so great that their penetration is truly one of the pioneering challenges from both space borne telescopes and from the ground

The Hands-On Guide for Science Communicators Lars Lindberg Christensen, 2007-06-08 Many people know something about communication it is after all an innate human ability but a full comprehension of how to do science communication effectively is not acquired easily This Guide touches upon all aspects of science communication revealing a tightly interwoven fabric of issues product types target groups written communication visual communication validation processes practices of efficient workflow distribution promotion advertising and much more New science communicators will find this Guide both helpful and inspirational

Organizations and Strategies in Astronomy Andre Heck, 2001-10-31 Seated in a sun lit corner of his 17th century Dutch house his hand touching a celestial globe Johannes Vermeer's Astronomer seems to ponder about the mysteries of the universe We might make the trip to Paris and ask him in the Louvre what precisely is on his mind Unfortunately there will be no answer But we do know what his mind was not on It was not on the approaching deadlines for the proposals he would have to write for getting funds and telescope time not on the meeting of the observing programs committee not on his refereeing duty for the journal Astronomy Astrophysics nor on his university's tightening budget for science In the Kapteyn Institute at Groningen I stand face to face with the impressive portrait of J C Kapteyn painted in the year 1918 Seated at his desk he is doing his calculations with pen pencil and tables perhaps checking the work of his skilled staff of human computers Early in his career he had completed his magnum opus the Cape Photographic Durchmusterung in collaboration with his close friend David Gill at Capetown South Africa

[The Initial Mass Function 50 Years Later](#) Edvige Corbelli, Francesco Palla, Hans Zinnecker, 2007-10-06 The idea to celebrate 50 years of the Salpeter IMF occurred during the recent IAU General Assembly in Sydney Australia Indeed it was from Australia that in July 1954 Ed Salpeter submitted his famous paper The Luminosity Function and Stellar Evolution with the first derivation of the empirical stellar IMF This contribution was to become one of the most famous astrophysics papers of the last 50 years Here Ed Salpeter introduced the terms original mass function and original luminosity function and estimated the probability for the creation of stars of given mass at a particular time now known as the Salpeter Initial Mass Function or IMF The paper was written at the Australian National

University in Canberra on leave of absence from Cornell University USA and was published in 1955 as 7 page note in the Astrophysical Journal Vol 121 page 161 To celebrate the 50th anniversary of the IMF along with Ed Salpeter's 80th birthday we have organized a special meeting that brought together scientists involved in the empirical determination of this fundamental quantity in a variety of astrophysical contexts and other scientists fascinated by the deep implications of the IMF on star formation theories on the physical conditions of the gas before and after star formation and on galactic evolution and cosmology The meeting took place in one of the most beautiful spots of the Tuscan countryside far from the noise and haste of everyday life

The Multinational History of Strasbourg Astronomical Observatory Andre HECK,2006-04-04

Strasbourg Astronomical Observatory is quite an interesting place for historians several changes of nationality between France and Germany high profile scientists having been based there big projects born or installed within its walls and so on Most of the documents circulating on the history of the Observatory and on related matters have however been so far poorly referenced if at all This made necessary the compilation of a volume such as this one offering fully documented historical facts and references on the first decades of the Observatory history authored by both French and German specialists The experts contributing to this book have done their best to write in a way understandable to readers not necessarily hyperspecialized in astronomy nor in the details of European history Several appendices conclude the book lists of council members and of Observatory scientific personnel as well as a compendium of the institutional publications until the year 2000

Radiation Hazard in Space L.I. Miroshnichenko,2013-04-17

The monograph contains 8 chapters and their contents cover all principal aspects of the problem 1 Introduction and brief history of the radiation problem and background information of radiation hazard in the near Earth and interplanetary space 2 General description of radiation conditions and main sources of charged particles in the Earth's environment and interplanetary space effects of space environment on spacecraft 3 Basic information about physical conditions in space and main sources of charged particles in the Earth's environment and interplanetary space in the context of Space Weather monitoring and prediction 4 Trapped radiation belts of the Earth ERB theory of their origin spatial and temporal dynamics and experimental and statistical models 5 Galactic cosmic rays GCR variations of energetic temporal and spatial characteristics long term modulation and anomalous cosmic ray ACR component modeling of their dynamics 6 Production of energetic particles SEPs at near the Sun available databases acceleration propagation and prediction of individual SEP event statistical models of solar cosmic rays SCR 7 Existing empirical techniques of estimating prediction and modeling of radiation hazard methodical approaches and constraints some questions of changes in the Earth's radiation environment due to changes of the solar activity level 8 Unresolved problems of radiation hazard prediction and spacecraft protection radiation experiments on board the spacecraft estimating of radiation conditions during interplanetary missions Space does not allow us to explain every time the solar terrestrial and radiation physics nomenclature used in current English language literature

Stellar Collapse Chris L. Fryer,2004-04-30 Supernovae

hypernovae and gamma ray bursts are among the most energetic explosions in the universe. The light from these outbursts is for a brief time comparable to billions of stars and can outshine the host galaxy within which the explosions reside. Most of the heavy elements in the universe are formed within these energetic explosions. Surprisingly enough, the collapse of massive stars is the primary source of not just one but all three of these explosions. As all of these explosions arise from stellar collapse, to understand one requires an understanding of the others. *Stellar Collapse* marks the first book to combine discussions of all three phenomena, focusing on the similarities and differences between them. Designed for graduate students and scientists newly entering this field, this book provides a review not only of these explosions but the detailed physical models used to explain them, from the numerical techniques used to model neutrino transport and gamma ray transport to the detailed nuclear physics behind the evolution of the collapse to the observations that have led to these three classes of explosions.

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Table of Contents Organizations And Strategies In Astronomy Iii

1. Understanding the eBook Organizations And Strategies In Astronomy Iii
 - The Rise of Digital Reading Organizations And Strategies In Astronomy Iii
 - Advantages of eBooks Over Traditional Books
2. Identifying Organizations And Strategies In Astronomy Iii
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Organizations And Strategies In Astronomy Iii
 - User-Friendly Interface
4. Exploring eBook Recommendations from Organizations And Strategies In Astronomy Iii
 - Personalized Recommendations
 - Organizations And Strategies In Astronomy Iii User Reviews and Ratings
 - Organizations And Strategies In Astronomy Iii and Bestseller Lists
5. Accessing Organizations And Strategies In Astronomy Iii Free and Paid eBooks
 - Organizations And Strategies In Astronomy Iii Public Domain eBooks
 - Organizations And Strategies In Astronomy Iii eBook Subscription Services
 - Organizations And Strategies In Astronomy Iii Budget-Friendly Options
6. Navigating Organizations And Strategies In Astronomy Iii eBook Formats

- ePub, PDF, MOBI, and More
- Organizations And Strategies In Astronomy Iii Compatibility with Devices
- Organizations And Strategies In Astronomy Iii Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Organizations And Strategies In Astronomy Iii
 - Highlighting and Note-Taking Organizations And Strategies In Astronomy Iii
 - Interactive Elements Organizations And Strategies In Astronomy Iii
- 8. Staying Engaged with Organizations And Strategies In Astronomy Iii
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Organizations And Strategies In Astronomy Iii
- 9. Balancing eBooks and Physical Books Organizations And Strategies In Astronomy Iii
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Organizations And Strategies In Astronomy Iii
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Organizations And Strategies In Astronomy Iii
 - Setting Reading Goals Organizations And Strategies In Astronomy Iii
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Organizations And Strategies In Astronomy Iii
 - Fact-Checking eBook Content of Organizations And Strategies In Astronomy Iii
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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