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# REMEMBERING EDITH ALICE MÜLLER

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# Remembering Edith Alice Muller

**M.A. Gordon, Roman L. Sorochenko**



## **Remembering Edith Alice Muller:**

Remembering Edith Alice Müller Immo Appenzeller, Yves Chmielewski, Jean-Claude Pecker, Ramiro de la Reza, Gustav Tammann, Patrick A. Wayman, 2012-12-06 Edith Alicia Müller 1918 1995 was the IAU General Secretary from 1976 to 1979 the first woman to have this responsibility Many friends students and colleagues and others who have met Edith at different occasions give in this book their memories of her Her fundamental work in solar physics concerned the chemical composition of the Sun the time variation of its infra red spectrum and its thermal structure Her interests were however far broader than that She was heavily involved in international work for the teaching of astronomy and for the exchange program of young astronomers

**China and the International Astronomical Union** Thierry Montmerle, Yi Zhou, 2022-07-29 Seen from inside the IAU this book tells the in depth story of a major crisis in which China divorced from the International Astronomical Union in 1960 as a protest against the admission of Taiwan This happened to all the scientific unions at the same time and to the Olympic Games which unexpectedly would serve as a laboratory for the reconciliation which took place following the re opening of China to the world 20 years later The so called China conflict is the most important crisis in the post WWII history of the IAU Yet many details about this conflict and its links to broader geopolitical events have long remained unsettled obscure or altogether absent In particular the book describes for the first time the separation period which covered the Cultural Revolution and in which the IAU made desperate official efforts to reach out to China while some groups of Western and Chinese astronomers managed to keep contact at times On the occasion of the IAU Centenary celebrations in 2019 the book revisits this painful succession of events using unpublished documents from the IAU Archives and the International Council of Scientific Unions The book also contains supplementary typescripts of selected handwritten correspondences and the full translation of key original Chinese documents unknown to readers outside China What emerges is a complex and fascinating story of human relations and science diplomacy under the shadow of the Cold War Readers will learn how the 20 year China conflict as lived by astronomers and scientists is important not only for the history of the IAU but also for the history of contemporary China This book is full of so many original documents of the IAU office very reliable and good to open to the public readers Shuhua Ye Shanghai Observatory IAU Vice President 1988 1994 This book is a companion book to Astronomers as Diplomats published at the same time in the same series

**History of Oriental Astronomy** S.M. Ansari, 2013-06-29 Proceedings of the Joint Discussion 17 at the 23rd IAU General Assembly organised by the Commission 41 held in Kyoto Japan August 25 26 1997

Modern Theoretical and Observational Cosmology Manolis Plionis, Spiros Cotsakis, 2012-12-06 Proceedings of the second Hellenic Cosmology Meeting held in the National Observatory of Athens Penteli 19 20 April 2001

*Radio Recombination Lines* M.A. Gordon, Roman L. Sorochenko, 2012-12-06 Recombination lines at radio wavelengths have been and still are a powerful tool for modern astronomy For more than thirty years they have allowed astronomers to probe the gases from which stars form They have even been detected in the Sun In addition

observations of these spectral lines facilitate basic research into the atom in forms and environments that can only exist in the huge dimensions and extreme conditions of cosmic laboratories We intend this book to serve as a tourist's guide to the world of Radio Recombination Lines It contains three divisions a history of their discovery the physics of how they form and how their voyage to us influences their spectral profiles and a description of their many astronomical contributions to date The appendix includes supplementary calculations that may be useful to some astronomers This material also includes tables of line frequencies from 12 MHz to 30THz ALOJLm as well as FORTRAN computer code to calculate the fine structure components of the lines to evaluate radial matrix integrals and to calculate the departure coefficients of hydrogen in a cosmic environment It also describes how to convert observational to astrophysical units The text includes extensive references to the literature to assist readers who want more details

**Plasma Astrophysics** Arnold O. Benz, 2005-11-28 This textbook is intended as an introduction to the physics of solar and stellar coronae emphasizing kinetic plasma processes It is addressed to observational astronomers graduate students and advanced undergraduates without a background in plasma physics Coronal physics is today a vast field with many different aims and goals Sorting out the really important aspects of an observed phenomenon and using the physics best suited for the case is a formidable problem There are already several excellent books oriented toward the interests of astrophysicists that deal with the magnetohydrodynamics of stellar atmospheres radiation transport and radiation theory In kinetic processes the different particle velocities play an important role This is the case when particle collisions can be neglected for example in very brief phenomena such as one period of a high frequency wave or in effects produced by energetic particles with very long collision times Some of the most persistent problems of solar physics like coronal heating shock waves flare energy release and particle acceleration are likely to be at least partially related to such processes Study of the Sun is not regarded here as an end in itself but as the source of information for more general stellar applications Our understanding of stellar processes relies heavily in turn on our understanding of solar processes Thus an introduction to what is happening in hot dilute coronae necessarily starts with the plasma physics of our nearest star

**Merging Processes in Galaxy Clusters** L. Feretti, I.M. Gioia, G. Giovannini, 2006-04-18 Mergers are the mechanisms by which galaxy clusters are assembled through the hierarchical growth of smaller clusters and groups Major cluster mergers are the most energetic events in the Universe since the Big Bang Many of the observed properties of clusters depend on the physics of the merging process These include substructure shock intra cluster plasma temperature and entropy structure mixing of heavy elements within the intra cluster medium acceleration of high energy particles formation of radio halos and the effects on the galaxy radio emission This book reviews our current understanding of cluster merging from an observational and theoretical perspective and is appropriate for both graduate students and researchers in the field

**Mechanics of Turbulence of Multicomponent Gases** Mikhail Ya. Marov, Aleksander V. Kolesnichenko, 2006-04-18 Space exploration and advanced astronomy have dramatically expanded our knowledge of outer

space and made it possible to study the indepth mechanisms underlying various natural phenomena caused by complex interaction of physical chemical and dynamical processes in the universe Huge breakthroughs in astrophysics and the planetary sciences have led to increasingly complicated models of such media as giant molecular clouds giving birth to stars protoplanetary accretion disks associated with the solar system s formation planetary atmospheres and circumplanetary space The creation of these models was promoted by the development of basic approaches in modern mechanics and physics paralleled by the great advancement in the computer sciences As a result numerous multidimensional non stationary problems involving the analysis of evolutionary processes can be investigated using wide range numerical experiments Turbulence belongs to the most widespread and at the same time the most complicated natural phenomena related to the origin and development of organized structures dies of different scale at a definite flow regime of fluids in essentially non linear hydrodynamic systems This is also one of the most complex and intriguing sections of the mechanics of fluids The direct numerical modeling of turbulent flows encounters large mathematical difficulties while the development of a general turbulence theory is hardly possible because of the complexity of interacting coherent structures Three dimensional non steady motions arise in such a system under loss of laminar flow stability defined by the critical value of the Reynolds number

Information Handling in Astronomy - Historical Vistas Andre Heck,2003-03-31 This book offers a unique review of how astronomical information handling in the broad sense evolved in the course of the 20th century and especially during its second half It will be very useful for researchers teachers editors publishers librarians computer scientists sociologists of science research planners and strategists project managers public relations officers plus those in charge of astronomy related organizations as well as by students aiming at a career in astronomy or related space science **Multielement**

**System Design in Astronomy and Radio Science** L.E. Kopilovich,L.G. Sodin,2001-11-30 The multielement systems have been widely used in many fields of astronomy and radio science in the last decades This is caused by the increasing demands on the resolution and sensitivity of such systems over the wide range of the electromagnetic wavelengths from gamma up to radio The ground based optical and radio interferometers gamma ray and X ray orbital telescopes antenna arrays of radio telescopes and also some other radio devices belong to scientific instruments using multielement systems Therefore the current problems of the optimal construction of such systems or precisely those of searching for the best arrangement of the elements in them were formulated A rather large number of scientific papers including those of the authors is devoted to these problems and we believe that the time has come to integrate the basic results of the papers into the monograph The offered book consists of three parts The first part is concerned with the optimal synthesis of optical and radio interferometers of various types and purposes the synthesis of non equidistant antenna arrays is considered in the second part and the methods for the construction of coded masks for X ray and gamma ray orbital telescopes are expounded in the third one Since in the text combinatorial constructions which are little known to astronomers are used the necessary information is

given in the appendices Various tables containing the parameters of the systems considered are also represented

**The Sun and Space Weather** Arnold Hanslmeier, 2002-06-30 Since the Sun is the main source of space weather effects the first part of the book is devoted to a general introduction to the physics of the Sun A better understanding of the phenomena underlying solar activity is also important for prediction of solar outbursts and thus for establishing alert systems for space missions and telecommunication systems The book contains the following topics possible influence of the Sun on the Earth's climate the effects of radiation on humans in space and the expected radiation dose from various solar events disturbances of the Earth's ionosphere and the implications of radio communication at different wavelength ranges possible hazardous asteroids and meteoroids and their detection and space debris and special shielding of spacecraft In the cited literature more detailed information about the topics may be found This book provides an introduction and overview of modern solar terrestrial physics for students as well as for researchers in the field of astrophysics solar physics geophysics and climate research

**The British National Bibliography** Arthur James Wells, 1999 **Books In Print 2004-2005** Ed Bowker Staff, Staff Bowker, Ed, 2004 *Journal for the History of Astronomy*, 1999 *Bibliographic Guide to Womens Studies 1998* New York Public Library Staff, 1999-08 **Book Review Index**, 2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index *American Book Publishing Record Cumulative 1998* R R Bowker Publishing, 1999-03

**The Observatory**, 1998 *Yearbook of International Organizations 2014-2015 (Volume 4)* Union Of International Associations, Union of International Associations, 2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Providing both an international organizations and research bibliography Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on international organizations and transnational associations

**Cumulative Book Index**, 1998 A world list of books in the English language

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