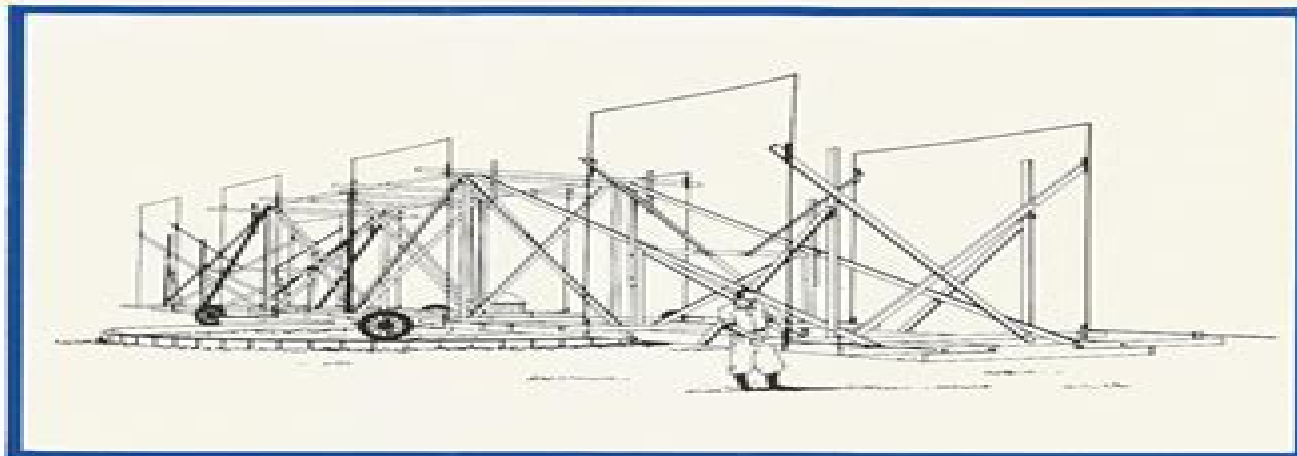


SERENDIPITOUS DISCOVERIES IN RADIO ASTRONOMY

Proceedings of a Workshop held at the
National Radio Astronomy Observatory
Green Bank, West Virginia on May 4, 5, 6, 1983



Honoring the 50th Anniversary Announcing
the Discovery of Cosmic Radio Waves
by Karl G. Jansky on May 5, 1933

Edited by K. Kellermann and B. Sheets

Serendipitous Discoveries In Radio Astronomy

K. Kellermann



Serendipitous Discoveries In Radio Astronomy:

Serendipitous Discoveries in Radio Astronomy Kenneth I. Kellermann, B. Sheets, 1983 **Serendipitous Discoveries in Radio Astronomy: Proceedings of a Workshop Held at the ... Observatory, Green Bank, West Virginia on May 4,5,6, 1983; Ed. by K. Kellermann and B. Sheets** National Radio Astronomy Observatory, 1983 **The Early Years of Radio Astronomy** W. T. Sullivan, 2004 Recollection by pioneers in radio astronomy to mark the fiftieth anniversary of extraterrestrial radio emission in 1933 **Serendipitous Discoveries in Radio Astronomy** National Radio Astronomy Observatory (Estados Unidos). Workshop, 1983 **Literature 1985, Part 1** S. Böhme, U. Esser, Prof. Dr. W. Fricke, H. Hefele, Inge Heinrich, W. Hofmann, R. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-12-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 39 records literature published in 1985 and received before August 15 1985 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications On account of the introduction of an object index the scope of index information will be considerably enlarged beginning with this volume In connection with the subject index an additional source to satisfy the needs of retrieval is opened up Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Mona El Choura Ms Monika Kohl Ms Sylvia Matyssek Ms Karin Burkhardt Ms Susanne Schlotelburg and Mr Stefan Wagner supported our task by careful proofreading It is a pleasure to thank them all for their encouragement Heidelberg September 1985 The Editors Contents Introduction *Serendipitous Discoveries in Radio Astronomy* K. Kellermann, 1983 **Star Noise: Discovering the Radio Universe** Kenneth I. Kellermann, Ellen N. Bouton, 2023-05-11 Until Karl Jansky's 1933 discovery of radio noise from the Milky Way astronomy was limited to observation by visible light Radio astronomy opened a new window on the Universe leading to the discovery of quasars pulsars the cosmic microwave background electrical storms on Jupiter the first extrasolar planets and many other unexpected and unanticipated phenomena Theory generally played little or no role or even pointed in the wrong direction Some discoveries came as a result of military or industrial activities some from academic research intended for other purposes some from simply looking with a new technique Often it was the right person in the right place at the right time doing the right thing or sometimes the wrong thing Star Noise tells the story of these discoveries the men and women who made them the circumstances which enabled them and the surprising ways in which real life scientific research works

Serendipitous Discoveries in Radio Astronomy Kenneth I. Kellermann, 1986 Radio Astronomy in Canada Jasper Wall, Elizabeth Griffin, Richard Jarrell, 2024-12-23 Here is the tale of Canada's intriguing development of the science of Radio Astronomy In 1946 the lone figure of Arthur Covington started monitoring the radio emission of the Sun a programme that continues to this day By the 1960s Canada had progressed to constructing two radio observatories at either ends of the country the DRAO and the ARO and universities were coming onboard The story continues through the dire times for these and follows their fortunes and fates right up to the present with Canada now playing key roles in billion dollar international telescope projects It concludes with the construction and operation of Canada's own transformational telescope CHIME Anecdotes and images throughout the book liven the story The authors two practising astronomers have painstakingly put together this fascinating story drawing on first hand experiences valuable contributions from many colleagues and the research of science historian Richard Jarrell 1942 2013 This book fills a gap in the substantial literature on the history of radio astronomy Carefully researched by three experts and based on input by further experts in the field it documents the extensive scientific and especially technical innovations of Canadian scientists and engineers This includes the important Canadian absolute flux density calibrations the critical Canadian contribution to low frequency radio astronomy and VLBI and the long running solar monitoring programme Frank discussions about the excellent 46 m ARO telescope and its fate lead into considerations of Canada's contributions to recent international projects the JCMT ALMA and the upcoming SKA The book concludes with a description of CHIME Canada's own new generation radio installation Ken Kellermann Senior Scientist Emeritus National Radio Astronomy Observatory Charlottesville USA **An Introduction to Radio Astronomy** Bernard F. Burke, Francis Graham-Smith, Peter N. Wilkinson, 2019-08-22 Radio astronomy is an active and rapidly expanding field due to advances in computing techniques with several important new instruments on the horizon This text provides a thorough introduction to radio astronomy and its contribution to our understanding of the universe bridging the gap between basic introductions and research level treatments It begins by covering the fundamentals physics of radio techniques before moving on to single dish telescopes and aperture synthesis arrays Fully updated and extensively rewritten the fourth edition places greater emphasis on techniques with detailed discussion of interferometry in particular and comprehensive coverage of digital techniques in the appendices The science sections are fully revised with new author Peter N Wilkinson bringing added expertise to the sections on pulsars quasars and active galaxies Spanning the entirety of radio astronomy this is an engaging introduction for students and researchers approaching radio astronomy for the first time Mirror, Mirror Mark Pendergrast, 2009-04-28 Of all human inventions the mirror is perhaps the one most closely connected to our own consciousness As our first technology for contemplation of the self the mirror is arguably as important an invention as the wheel Mirror Mirror is the fascinating story of the mirror's invention refinement and use in an astonishing range of human activities from the fantastic mirrored rooms that wealthy Romans created for their orgies to the mirror's key role in the use

and understanding of light Pendergrast spins tales of the 2 500year mystery of whether Archimedes and his burning mirror really set faraway Roman ships on fire the medieval Venetian glassmakers who perfected the technique of making large flat mirrors from clear glass and for whom any attempt to leave their cloistered island was punishable by death Isaac Newton whose experiments with sunlight on mirrors once left him blinded for three days the artist David Hockney who holds controversial ideas about Renaissance artists and their use of optical devices and George Ellery Hale the manic depressive astronomer and telescope enthusiast who inspired and gave his name to the twentieth century s largest ground based telescope Like mirrors themselves Mirror Mirror is a book of endless wonder and fascination [Making Waves M](#)

Goss,2013-07-10 This book is an abbreviated partly re written version of Under the Radar The First Woman in Radio Astronomy Ruby Payne Scott It addresses a general readership interested in historical and sociological aspects of astronomy and presents the biography of Ruby Payne Scott 1912 1981 As the first female radio astronomer and one of the first people in the world to consider radio astronomy she made classic contributions to solar radio physics She also played a major role in the design of the Australian government s Council for Scientific and Industrial Research radars which were in turn of vital importance in the Southwest Pacific Theatre in World War II These radars were used by military personnel from Australia the United States and New Zealand From a sociological perspective her career offers many examples of the perils of being a female academic in the first half of the 20th century Written in an engaging style and complemented by many historical photographs this book offers fascinating insights into the beginnings of radio astronomy and the role of a pioneering woman in astronomy To set the scene the first colourfully illustrated chapter presents an overview of solar astrophysics and the tools of the radio astronomer From the reviews of Under the Radar This is a beautifully researched copiously illustrated and well written book that tells us much more than the life of one amazing female radio astronomer It also provides a profile on radar developments during WWII and on Australia s pre eminent place in solar radio astronomy in the years following WWII Under the Radar is compelling reading and if you have taken the time to read right through this review then it certainly belongs on your bookshelf Wayne Orchiston Journal of Astronomical History and Heritage March 2010 [Open Skies](#) Kenneth I. Kellermann, Ellen N. Bouton, Sierra S. Brandt, 2020-06-29 This open access book on the history of the National Radio Astronomy Observatory covers the scientific discoveries and technical innovations of late 20th century radio astronomy with particular attention to the people and institutions involved The authors have made extensive use of the NRAO Archives which contain an unparalleled collection of documents pertaining to the history of radio astronomy including the institutional records of NRAO as well as the personal papers of many of the pioneers of U S radio astronomy Technical details and extensive citations to original sources are given in notes for the more technical readers but are not required for an understanding of the body of the book This book is intended for an audience ranging from interested lay readers to professional researchers studying the scientific technical political and cultural development of a new science and how it

changed the course of 20th century astronomy With a Foreword by Ron Ekers **In Quest of the Universe** Theo Koupelis, 2012-12 Every new copy of *In Quest of the Universe* Seventh Edition print textbook includes access to the Companion Website Designed for the nonscience major *In Quest of the Universe* Seventh Edition provides a comprehensive accessible introduction to astronomy while taking students on an exciting trek through our solar system and beyond Updated throughout with the latest findings in this fast paced field the author unfolds historical and contemporary theories in astronomy to provide a clear account of how the science works His student friendly writing style and clear explanations acquaint students with our own solar system before moving on to the stars and distant galaxies New Comparative Planetology boxes and data table throughout the text examine the similarities and differences in the geology evolution and atmospheres of all the planets in our solar system This rich pedagogy further engages students and motivates them to think critically and develop basic reasoning skills in their studies New and Key Features of the Seventh Edition Updated throughout with the latest discoveries in the field with new and expanded content found in each chapter Added critical thinking and problem solving exercises can be found at the end of each chapter New boxes and data tables throughout examine the similarities and differences in the geology evolution and atmospheres of all planets in our solar system To increase understanding and clarity sample calculations have been added to mathematical sections Instructor s materials include PowerPoint Lecture Slides PowerPoint Image Bank Test Bank Instructor s Manual animations and more The companion Web site Starlinks is included with every new copy of the text and includes study quizzes Exploration Web links animated flashcards an online glossary chapter outlines a calendar of upcoming astronomical events a guide to the constellations and a new math review tutor **In Quest of the Universe** Karl F. Kuhn, Theo Koupelis, 2004 *Understanding Life* Third Edition is intended for non major biology students General Biology non majors Principles of Biology *Handbook of Atmospheric Electrodynamics* Hans Volland, 1995-04-27 The participation of such diverse scientific and technical disciplines as meteorology astronomy atmospheric electricity ionospheric and magnetospheric physics electromagnetic wave propagation and radio techniques in the research of atmospheric means that results are published in scientific papers widely spread throughout the literature This Handbook collects the latest knowledge on atmospheric and presents it in two volumes Each chapter is written by an expert in his or her field Topics include the physics of thunderclouds thunder global atmospheric electric currents biological aspects of sferics and various space techniques for detecting lightning within our own atmosphere as well as in the atmospheres of other planets Up to date applications and methodology are detailed Volumes I and II offer a comprehensive discussion that together will serve as an important resource for practitioners professionals and students alike **Handbook of Atmospheric Electrodynamics, Volume I** Hans Volland, 2017-11-22 The participation of such diverse scientific and technical disciplines as meteorology astronomy atmospheric electricity ionospheric and magnetospheric physics electromagnetic wave propagation and radio techniques in the research of

atmospherics means that results are published in scientific papers widely spread throughout the literature This Handbook collects the latest knowledge on atmospheric and presents it in two volumes Each chapter is written by an expert in his or her field Topics include the physics of thunderclouds thunder global atmospheric electric currents biological aspects of sferics and various space techniques for detecting lightning within our own atmosphere as well as in the atmospheres of other planets Up to date applications and methodology are detailed Volumes I and II offer a comprehensive discussion that together will serve as an important resource for practitioners professionals and students alike

The Role of VLBI in Astrophysics, Astrometry and Geodesy Franco Mantovani, Andrzej Kus, 2005-12-31 A masterly survey of the last 13 years of Very Long Baseline Interferometry reviewed in light of the most advanced astronomical observations Topics covered include Nonthermal emission from extragalactic radio sources Principles of synchrotron emission in relation to astrophysics Theory of relativistic jets Young powerful radio sources and their evolution Scintillation in extragalactic radio sources Radio and optical interferometry Radio polarimetry Unified schemes Deep fields Tropospheric and ionospheric phase calibration Supernovae VLBI for geodesy and geodynamics

Beyond Southern Skies Peter Robertson, 1992-11-09 *Beyond Southern Skies* tells the story of the planning and construction of the Parkes Telescope in rural New South Wales Australia and surveys its achievements over the past thirty years Around this central theme Peter Robertson presents a broader history of radio astronomy describing its rapid rise to become the respected partner of traditional optical astronomy The opening up of the radio window on the universe has been one of the most exciting developments in modern science The technical achievements of the telescope outlined in Peter Robertson s very readable book will be accessible to a general audience Readers will be fascinated by the lively account of the personalities politics and controversy that lay behind the decision to build the Parkes Telescope Since its completion in 1961 the telescope has contributed much to our knowledge of quasars pulsars masers supernova remnants and molecular clouds as well as the other unusual objects discovered in recent years During the 1990s the telescope will continue to play a part in our quest to understand the origin and nature of the universe and our place in it

Precision Process Technology M.P.C. Weijnen, A.A.H. Drinkenburg, 2012-12-06 New process technology strategies are required to cope with the future Fossil feedstocks are losing ground in favour of renewable feedstocks and secondary resources Conventional processing routes using thermal sledgehammer techniques are replaced by highly selective biocatalytic conversions The future process engineer is neither allowed to think in terms of unit operations nor to take for granted the conventional practice of continuous steady state processing Hybrid systems and transient operations are more and more frequently encountered The continuing impressive progress being made in process modelling and control will revolutionize the process industries In the new generation of chemical production processes the keyword is precision Precision in terms of selectivity and of efficiency is required to maximize the utilisation of materials and energy Moreover enhanced precision is needed to exploit the quality of materials and energy to the full extent Only by reducing the

squandering of materials energy and quality will a harmonious relationship be established between the process industries the economy and the environment Process integration as well as an integrated effort by the disciplines involved in process technology will be of crucial importance in attaining the goals of precision process technology These emerging strategies involve an active exchange of tools and ideas between a variety of disciplines not only in plant design and operation but even more in the early stages of process development and design By looking from various angles at what the future has in store for the process industries this volume systematically lifts the corners of the veil and may inspire to establish a new tradition of precision in process technology

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