



# Radiophysics Laboratory

**W. T. Sullivan**



## **Radiophysics Laboratory:**

**Research Activities of the Radiophysics Laboratory** CSIRO, Commonwealth Scientific and Industrial Research Organization (Australia), 1952      **The Radiophysics Laboratory** C.S.I.R.O. Radiophysics Laboratory, 1960      **Radio Astronomy** H. C. Van De Hulst, 2016-06-02 Originally published in 1957 this book presents symposium number 4 organised by the International Astronomical Union held on 25th 27th August 1955 at the Jodrell Bank Experimental Station of the University of Manchester This volume contains all but two of the papers presented and one contribution paper 16 has been added at the editor s request Furthermore many papers have been improved as a result of discussion at the symposium or by the inclusion of data not available in August 1955 The papers are broad in scope and detailed chapter titles include Spectral line investigations Galactic structure and statistical studies of point sources and Meteors and planets Diagrams are included for reference throughout This book will be of significant value to astronomy scholars as well as to anyone with an interest in physics cosmology and the history of science      **The Rise of Radio Astronomy in the Netherlands** Astrid Elbers, 2016-11-23 Radio astronomy was born during the Second World War but as this book explains the history of early Dutch radio astronomy is in several respects rather anomalous in comparison to the development of radio astronomy in other countries The author describes how these very differences led the Netherlands to become one of the world leaders in radio astronomy Dominated by the Leiden astronomer Jan Hendrik Oort the field embarked on an era of success and to this day the country still holds a leading position To tell this story the book focuses on three key events in the period 1940 1970 namely the construction of the radio telescopes in Kootwijk 1948 in Dwingeloo 1956 and in Westerbork 1970 These projects show that Dutch radio astronomers must not be seen as merely scientists but also as strategic lobbyists networkers and organizers in a specific political and economic context It was in the process of planning designing and constructing these instruments that the interests of the astronomers industrial partners politicians and lobby groups merged to create today s existing research centers for radio astronomy      **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

**Radio Wave Propagation** Chas. R. Burrows, 2013-10-22 Radio Wave Propagation Consolidated Summary Technical Report of the Committee on Propagation of the National Defense Research Committee presents all the scientific information and report of experiments This book discusses the problems encountered in the propagation of radio waves Organized into three volumes this book begins with an overview of the technical developments in the study of tropospheric propagation This text then outlines the general theory of standard and nonstandard propagation together with descriptions and results of transmission experiments designed to test the theory Other chapters consider the more unusual problems concerning the radar behavior of targets This book discusses as well the problems of radio wave propagation in the standard atmosphere at frequencies above 30 megacycles The final chapter deals with the selection and utilization of local terrain features that affect propagation and the performance of equipment This book is a valuable resource for scientists and engineers in the field of radio wave propagation

**The Radiophysics Laboratory** C.S.I.R.O. Radiophysics Laboratory, 1968

**Radio Astronomy** Francis Graham-Smith, 1962

Parkes: Thirty Years of Radio Astronomy DK Milne, 1994-01-01 The opening of the Parkes radio telescope in October 1961 placed Australia at the forefront of international research in radio astronomy and ushered in an era of rapid developments in our understanding of the origin and nature of the Universe and our place within it Thirty years later the scientists engineers and technical staff involved in the establishment operation and subsequent development of this most successful of Australian research instruments gathered to review and reflect on their achievements and to recount many of the human stories that were so intimately bound up with this extraordinarily productive period in Australia's scientific history This book presents their accounts of the work and life at Parkes and provides a fresh perspective on the growth of Australian science over the past three decades

Under the Radar M Goss, Richard McGee, 2009-09-24 It is rare for a complete biography of an Australian scientist particularly of an Australian woman scientist to be published It is rarer for such a book to be co authored by an American Although scientists have written discourses on the history of their discipline it is most unusual for a scientist to write a full length biography of a colleague in his field It is also uncommon for a man to write about an Australian woman scientist most of the work on Australian women scientists has been done by other women However these authors both distinguished researchers in the field of radio astronomy became so interested in the history of their discipline and in the career of the pioneer radio astronomer Ruby Payne Scott that they spent some years bringing this book to fruition Until relatively

recently Ruby Payne Scott had been the only woman scientist mentioned briefly in histories of Australian science or of Australian radio astronomy This book will be an invaluable resource for anyone interested in these disciplines Being scientists themselves the authors explain Payne Scott's scientific work in detail therefore the value and importance of her contributions can for the first time be recognised not only by historians but also by scientists

**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

**Symposium on Radio Astronomy** C.S.I.R.O. Radiophysics Laboratory, 1957

**Golden Years of Australian Radio Astronomy** Wayne Orchiston, Peter Robertson, Woodruff T. Sullivan III, 2022-01-20 The evolution of Australian radio astronomy from 1945 to 1960 has been studied in detail by numerous historians of science in recent years This Open Access book is the first to present an overview of this remarkable chapter in Australian science The book begins in the post war period as the Radiophysics Laboratory in Sydney switched from secret wartime research on radar to peacetime applications of this new technology Next follows the detection of radio waves from space and the ensuing transformation of this fledgling science into the dominant research program at the Radiophysics Lab Drawing from this history the book shows how by 1960 the Radiophysics Lab had become the largest and most successful radio astronomy group in the world The final chapter presents an overview of Australian radio astronomy from 1960 to the present day as Australia prepares to co host the multi national multi billion dollar Square Kilometre Array Nearly 300 high quality images complement the text drawn from a wide range of sources including the extensive collection held by the CSIRO Radio Astronomy Image Archive The book will be an essential reference for readers interested in the scientific and cultural development of radio astronomy This book is published open access under a CC BY 4.0 license

**Classics in Radio Astronomy** W.T. Sullivan, 2012-12-06 Radio techniques were the first to lead astronomy away from the quiescent and limited Universe revealed by traditional observations at optical wave lengths In the earliest days of radio astronomy a handful of radio physicists and engineers made one startling discovery after another as they opened up the radio sky With this collection of classic papers and the extensive introductory material the reader can experience these exciting discoveries as well as understand the developing techniques and follow the motivations which prompted the various lines of inquiry For instance he or she will follow in detail the several attempts to

detect radio waves from the sun at the turn of the century the unravelling by Jansky of a steady hiss type static the incredible story of Reber who built a 9 meter dish in his backyard in 1937 and then mapped the Milky Way the vital discoveries by Hey and colleagues of radio bursts from the Sun and of a discrete source in the constellation of Cygnus the development of receivers and interferometry in the post war years by the groups led by Ryle in Cambridge and Pawsey in Sydney the first measurements and exciting identifications of Taurus A the Crab Nebula Centaurus A Virgo A Cassiopeia A and Cygnus A the last opening the field of radio cosmology the early development of synchrotron theory and the prediction and discovery seven years later of the 21 cm line of neutral hydrogen

*Summary Technical Report of the Committee on Propagation, NDRC* United States. Office of Scientific Research and Development. National Defense Research Committee, 1946

*Historical and technical survey* United States. Office of Scientific Research and Development. National Defense Research Committee. Committee on Propagation, 1946

*Historical and Technical Survey* United States. Office of Scientific Research and Development. National Defense Research Committee, 1946

*Essays on Astronomical History and Heritage* Steven Gullberg, Peter Robertson, 2023-08-14 This multidisciplinary work celebrates Wayne Orchiston's career and accomplishments in historical and cultural astronomy on the occasion of his 80th birthday Over thirty of the world's leading scholars in astronomy astrophysics astronomical history and cultural astronomy have come together to honor Wayne across a wide range of research topics These themes include Astronomy and Society Emergence of Astrophysics History of Radio Astronomy Solar System Observatories and Instrumentation Ethnoastronomy and Archeoastronomy This exceptional collection of essays presents an overview of Wayne's prolific contributions to the field along with detailed accounts of the book's diverse themes It is a valuable and insightful volume for both researchers and others interested in the fields of historical astronomy and cultural astronomy

*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

**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

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