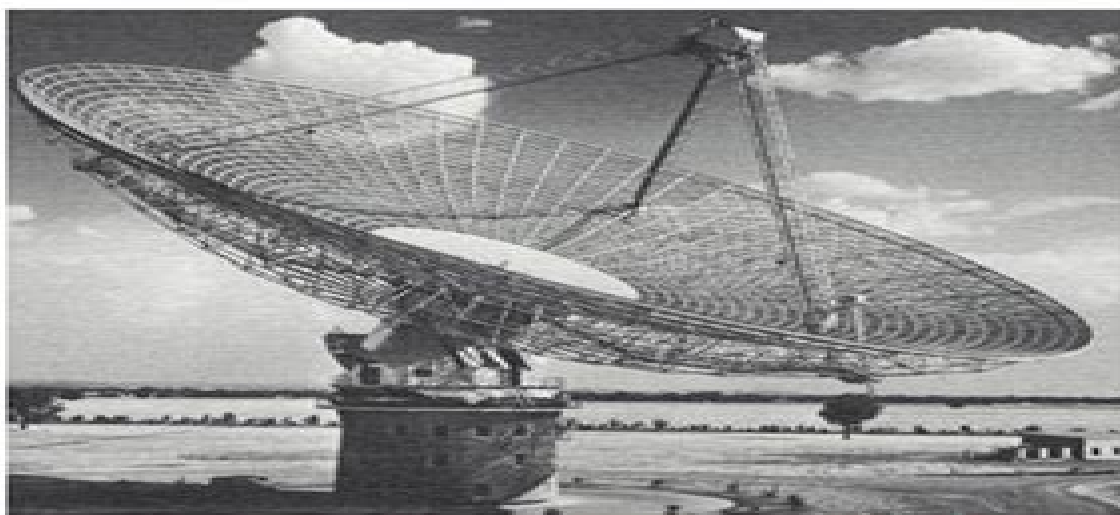
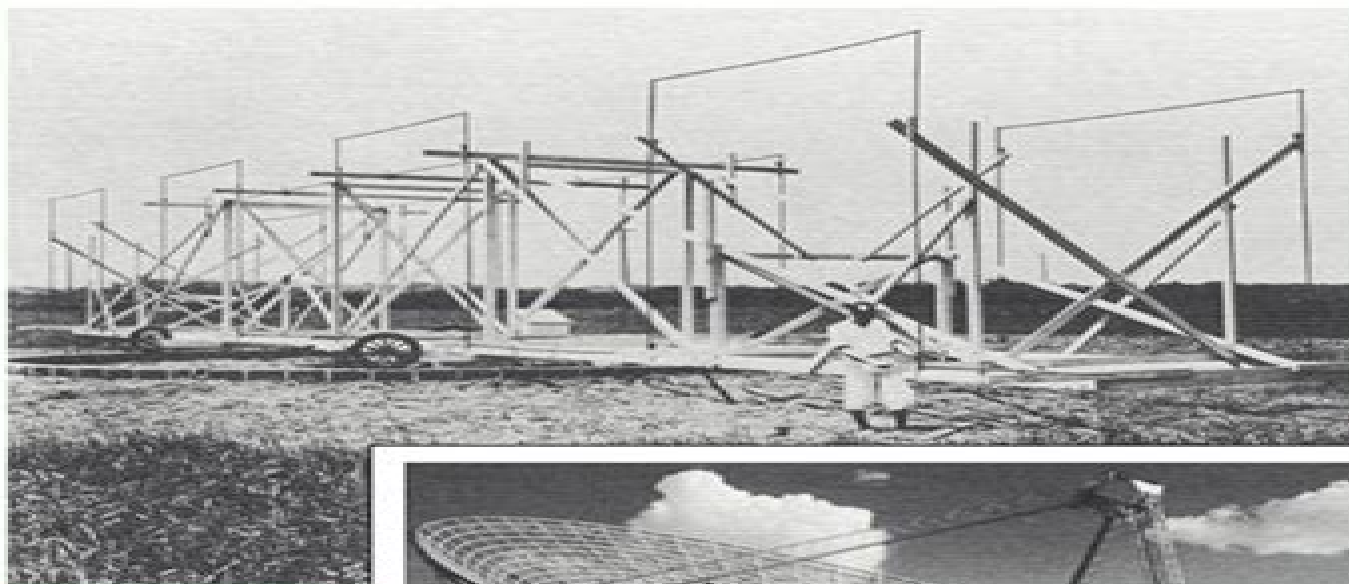


THE EARLY YEARS OF **RADIO ASTRONOMY**

REFLECTIONS FIFTY YEARS AFTER JANSKY'S DISCOVERY

Edited by W.T.SULLIVAN, III



The Early Years Of Radio Astronomy Reflections Fifty Years After Janskys Discovery

Wayne Orchiston



The Early Years Of Radio Astronomy Reflections Fifty Years After Janskys Discovery:

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 **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 **Astrophysics, Astronomy and Space Sciences in the History of the Max Planck Society** Luisa Bonolis, Juan-Andres Leon, 2022-12-05 This book provides the first comprehensive historical account of the evolution of scientific traditions in astronomy astrophysics and the space sciences within the Max Planck Society Structured with in depth archival research interviews with protagonists unpublished photographs and an extensive bibliography it follows a unique history from the post war relaunch of physical sciences in West Germany to the spectacular developments and successes of cosmic sciences in the second half of the 20th century up to the emergence of multi messenger astronomy It reveals how the Society acquired national and international acclaim in becoming one of the world's most productive research organizations in these fields [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

Highlighting the History of Astronomy in the Asia-Pacific Region Wayne Orchiston, Tsuko Nakamura, Richard G. Strom, 2011-08-27 With just 400 pages this title provides readers with the results of recent research from some of the world s leading historians of astronomy on aspects of Arabic Australian Chinese Japanese and North and South American astronomy and astrophysics Of particular note are the sections on Arabic astronomy Asian applied astronomy and the history of Australian radio astronomy and the chapter on Peruvian astronomy This title is of particular appeal to those with research interests in applied historical astronomy archaeoastronomy calendars manuscripts and star charts historical instruments and observatories and the history of radio astronomy

Discovery and Classification in Astronomy Steven J. Dick, 2013-09-09 This book shows that astronomical discovery is a complex and ongoing process comprising various stages of research interpretation and understanding

Fundamentals of Radio Astronomy Jonathan M. Marr, Ronald L. Snell, Stanley E. Kurtz, 2015-11-30 As evidenced by five Nobel Prizes in physics radio astronomy in its 80 year history has contributed greatly to our understanding of the universe Yet for too long there has been no suitable textbook on radio astronomy for undergraduate students

Fundamentals of Radio Astronomy Observational Methods is the first undergraduate level textbook exclus

The History of Radio Astronomy and the National Radio Astronomy Observatory Benjamin K. Malphrus, 1996 In making the invisible universe visible radio telescopes allow astronomers to see through our local universe of nearby stars to view a distant universe Radio astronomy has provided tremendous insights into the composition physical characteristics and evolution of objects in the universe and revealed completely new unanticipated phenomena The National Radio Astronomy Observatory NRAO has greatly contributed to this scientific revolution The book traces the story of radio astronomy from its accidental beginnings in the 1930s to the present describes the development of NRAO instrumentation and focuses on the considerable contributions made by the scientists using the NRAO instruments This unique insight into the evolution of a truly modern science is written in a style that anyone with an interest in astronomy can understand and enjoy and also provides technical information that professionals in astronomy computer science and electrical engineering will find useful

The New Astronomy: Opening the Electromagnetic Window and Expanding our View of Planet Earth Wayne Orchiston, 2006-01-17 This is an unusual book combining as it does papers on astrobiology history of astronomy and sundials but after all Woody Sullivan is an unusual man In late 2003 I spent two fruitful and enjoyable months in the Astronomy Department at the University of

Washington UW working on archival material accumulated over the decades by Woody for a book we will co author with Jessica Chapman on the early development of Australian astronomy The only serious intellectual distraction I faced during this period was planning for an IAU colloquium on transits of Venus scheduled for June 2004 in England where I was down to present the Cook paper I knew Woody was also interested in transits and indeed anything remotely connected with shadows see his paper on page 3 and in discussing the Preston meeting with him it transpired that his 60th birthday was timed to occur just one week later This was where the seed of Woodfest began to germinate Why not invite friends and colleagues to join Woody in Seattle and celebrate this proud event I put the idea to Woody and others at UW they liked it and Woodfest was born

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

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