

THE HISTORY OF RADIO ASTRONOMY

A BIBLIOGRAPHY

1898-1983

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INTRODUCTION

The history of radio astronomy - whether one begins with Hertz's experiments, or Lodge's, or Jansky's - is one of fascination and serendipity. The development of the science has been fun and frustrating, often with the theorists two steps behind the observers, but with the former occasionally waiting around the bend of the next revelation smirking "I told you so." It is hoped that the bibliography that follows will give some of the essence of the early days and that the reader will be able to share some of the excitement, both of the early engineers who quickly realized they were onto something theretofore unknown and the later radio astronomers who continued in their footsteps. The attempt has been made to include most of the early engineering papers as well as a sampling of the theoretical ones that tried to explain what the engineers were revealing. In addition, there are included discovery papers for some of radio astronomy's "main events," a sampling of papers that reveal the development of the science in various countries, and books and papers that summarize the history of radio astronomy, or particular aspects of it, up to a certain point.

There are, of course, omissions. Some are deliberate. In order to keep the listing to a manageable size (<350), some things are covered only briefly, such as the numerous radio source catalogs, just to provide examples of the kind of work being done. Other omissions are through ignorance or a biased selectivity. When talking to a scientist knowledgeable in the history of the field, one finds a certain bias toward that individual's own work. When this bias was confirmed through further study, it was included; when not, it was not. But if one had talked to a different subset of scientists, the results would probably have been skewed another way. If what you consider the most important paper in the history of radio astronomy has been omitted, please accept my apologies and let me know what the paper is, so that perhaps a later edition can be better rounded.

FORMAT

The bibliography is divided into two parts. First, there is a chronological list that begins with Wilsing and Scheiner's attempt to detect solar radiation in the late nineteenth century and continues through the discovery of the millisecond pulsar in 1982. The list is alphabetical, by first author, within a particular year. The second part is an alphabetical, by first author, list of all of the papers and books listed in the first part, with SEE references from secondary authors. Numbers to the left of each entry indicate that the item is either a monograph (B) or an article (A, or S if included in Sullivan's Classics in Radio Astronomy (1982)). The format for each item is:

no. Author(s)
"Title"
(publication year) place: publisher (for monographs) or journal
title, volume, and inclusive pagination (for articles)

You are invited to peruse the bibliography and encouraged to go back and read the originals. The bibliography gives some of the essence of the history of radio astronomy, but to enjoy the full flavor you must read the papers for yourself. Many are contained in Sullivan's Classics and the majority of the others are likely available in your own library or on interlibrary loan from the National Radio Astronomy Observatory library.

ABBREVIATIONS

AJ	Astronomical Journal
Amer. Scientist	American Scientist
Ann. d'Astrophys.	Annales d'Astrophysique
Ann. Physik u. Chemie	Annalen der Physik und Chemie
Annals N.Y. Acad. Sci.	Annals of the New York Academy of Sciences
Astr. Tsirk.	Astronomicheskii Tsirkuliar
Astr. Zh.	Astronomicheskii Zhurnal
Astrophys. J.	Astrophysical Journal
Aust. J. Phys.	Australian Journal of Physics
Aust. J. Sci. Res.	Australian Journal of Scientific Research
BAN	Bulletin of the Astronomical Institutes of the Netherlands
Bell Lab. Rec.	Bell Laboratories Record
Comp. Rendus Acad. Sci. (Paris)	Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences
Dokl. Akad. nauk SSSR	Doklady Akademiia nauk SSSR
Ergebn. Exakt. Naturwiss.	Ergebnisse der exakten Naturwissenschaften
Hochfreq. Electroakustik	Hochfrequenztechnik und Elektroakustik
Hung. Phys. Acta	Hungarica Physica Acta
IAU Symp.	International Astronomical Union Symposium
ICC '79	1979 International Conference on Communications (IEEE)
IRE Trans. Ant. Prop.	Institute of Radio Engineers Transactions on Antennas and Propagation
J. Franklin Inst.	Journal of the Franklin Institute
J. Phys., USSR	Journal of Physics (Akademiia nauk SSSR)
JGR	Journal of Geophysical Research
JRASC	Journal of the Royal Astronomical Society of Canada
MNRAS	Monthly Notices of the Royal Astronomical Society
Naturwiss.	Naturwissenschaften

NBS TN	National Bureau of Standards Technical Note
Ned. Tijdschr. Natuurk.	Nederlandsch Tijdschrift voor Natuurkunde
PASP	Publications of the Astronomical Society of the Pacific
Phil. Mag.	Philosophical Magazine; a journal of theoretical, experimental and applied physics
Phys. Rev.	Physical Review
Phys. Rev. Lett.	Physical Review Letters
Phys. Today	Physics Today
Proc. IEEE	Proceedings of the Institute of Electrical and Electronics Engineers
Proc. IRE	Proceedings of the Institute of Radio Engineers
Proc. IRE Australia	Proceedings of the Institution of Radio Engineers of Australia
Proc. NAS	Proceedings of the National Academy of Sciences
Proc. Phys. Soc.	Proceedings of the Physical Society
Proc. Roy. Soc.	Proceedings of the Royal Society
QJRAS	Quarterly Journal of the Royal Astronomical Society
Rep. Radio Res. Japan	Report of Radio Research in Japan
Rev. Astron. (Argentina)	Revista Astronomica (Argentina)
Rev. Mod. Phys.	Reviews of Modern Physics
Rev. Sci. Instrum.	Review of Scientific Instruments
Sci. Amer.	Scientific American
Sci. Dimension (Canada)	Science Dimension (Canada)
Sci. Monthly	Scientific Monthly
Sky Telesc.	Sky and Telescope
Sov. Astron. AJ	Soviet Astronomy--AJ
Sterne	Die Sterne
Telecommun. J.	Telecommunication Journal (ITU)
Trudy Fiz. Inst. im. P.N. Lebedeva.	Trudy Fizicheskogo Instituta imeni P.N. Lebedeva.

Trudy Sovesh. Vop. Kosmog. Trudy Soveshchania po Voprosam Kosmogonii

URSI Spec. Rep. Union Radio Scientifique Internationale Special Report

Vistas Astron. Vistas in Astronomy

Z. Astrophys. Zeitschrift für Astrophysik

Zh. Eksp. Teor. Fiz. Zhurnal Eksperimentalnoi i Teoreticheskoi Fiziki

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