



# Smallaperture Radio Directionfinding

**Richard Lee Sydnor**



## **Smallaperture Radio Directionfinding:**

*Small-aperture Radio Direction-finding* Herndon H. Jenkins, 1991 Operating principles Performance definition Direction finding error sources System level descriptions Representative operational small aperture Passive geolocation Subsystem considerations Calibration and test of direction finding systems      **Modern HF Signal Detection and Direction Finding**

Jay R. Sklar, 2018-09-25 Detailed descriptions of detection direction finding and signal estimation methods using consistent formalisms and notation emphasizing HF antenna array sensing applications Adaptive antenna array technology encompasses many powerful interference suppression approaches that exploit spatial differences among signals reaching a radio receiver system Today worldwide propagation phenomenology occurring in the High Frequency HF radio regime has made such interference common In this book Jay Sklar a longtime researcher at MIT Lincoln Laboratory presents detailed descriptions of detection direction finding and signal estimation methods applicable at HF using consistent formalisms and notation Modern electronic system technology has made many of these techniques affordable and practical the goal of the book is to offer practicing engineers a comprehensive and self contained reference that will encourage more widespread application of these approaches The book is based on the author's thirty years of managing MIT Lincoln Laboratory work on the application of adaptive antenna array technologies to the sensing of HF communication signals After an overview of HF propagation phenomenology communication signal formats and HF receiver architectural approaches Sklar describes the HF propagation environment in more detail introduces important modulation approaches and signaling protocols used at HF discusses HF receiver system architectural features and addresses signal processor architecture and its implementation He then presents the technical foundation for the book the vector model for a signal received at an adaptive array antenna He follows this with discussions of actual signal processing techniques for detection and direction finding including specific direction finding algorithms geolocation techniques and signal estimation      **An Investigation of a Digital Bearing**

**Computer for a Small Aperture Radio Direction Finding System** Hubert Lee Grush, 1965      *Scientific and Technical Aerospace Reports*, 1966 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

*Radio Direction-finding and the Resolution of Multicomponent Wave-fields* P. J. D. Gething, 1978      *Direction Finding on Whistlers and Related VLF Signals* Michael Dennis Cousins, Stanford University Stanford Electronics Laboratories, 1972 The direction of arrival of whistlers and related VLF signals has been measured by a new technique This technique consists of applying an already existing theory the four parameter method to data collected by a novel measurement procedure Measurements of signals induced in orthogonal loop antennas and a vertical monopole located at a single site provide the necessary data The four parameter theory relates the loop and vertical voltages taking into account both amplitudes and phases so that polarization error may be eliminated The technique can be shown equal or superior in accuracy to any other

VLF direction finding scheme in current use such as the standard crossed loops and goniometer technique Author **An Investigation of Space Diversity Radio Direction Finding** Richard Lee Sydnor, 1962 The object of this investigation is to determine how far apart radio direction finders should be placed in order to obtain statistically independent samples and to establish the number of radio direction finders to be included in the ensemble average The conclusions are based upon high frequency radio direction finder bearing data observations obtained from two small aperture radio finders separated by a variable distance Crossed Adcock type direction finders were used and the separation distance was varied from 1 32 to 1 4 mi The data were obtained over a period of approximately one yr during the time when conditions in the ionosphere were normal Author *The Summary of Engineering Research* University of Illinois (Urbana-Champaign campus). Engineering Experiment Station, University of Illinois (Urbana-Champaign campus). Office of Engineering Publications, 1959 Illinois Technograph, 1959 *Final Report on Direction of Arrival of Radio Waves* H. D. Webb, A. D. Bailey, E. C. Hayden, 1956 A *Summary of Engineering Research* University of Illinois (Urbana-Champaign campus). Engineering Experiment Station, 1960 *Progress Report on Direction of Arrival of Radio Waves : Report* University of Illinois at Urbana-Champaign. Electrical Engineering Research Laboratory, 1951 THEORY OF NON-HOMOGENEOUS ANISOTROPIC ELASTIC SHELLS SUBJECTED TO ARBITRARY TEMPERATURE DISTRIBUTION. John Edward Baerwald, Omar Marion Sidebottom, P'ei-chih Chao, R. E. Miller, University of Illinois (Urbana-Champaign campus). Engineering Experiment Station, University of Illinois at Urbana-Champaign. Engineering Experiment Station, 1960 **A Frequency-tracking Direction-finder for Whistlers and Other Very Low Frequency Signals** Stanford University. Stanford Electronics Laboratories, Mark Keith Leavitt, 1975 Government Reports Announcements & Index, 1993-08 **Electronic Warfare Target Location Methods** Richard Poisel, 2005 Describing the mathematical development underlying current and classical methods of geolocating electronic systems that are emitting this unique book offers practical guidance in electronic warfare target location Supported with over 620 equations and more than 115 illustrations the book provides you with critical design information on geolocation algorithms It establishes the fundamentals of existing algorithms as a launch point for further algorithm development You gain an in depth understanding of key target location methods that you can effectively apply to your work in the field Technical Report, 1958 **Engineering Experiment Station Circular**, 1962 **Proceedings of the National Electronics Conference**, 1959 **Comprehensive Dissertation Index, 1861-1972: Engineering: civil, electrical, and industrial** Xerox University Microfilms, 1973

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