## Parabolic Reflector Antennas

- Parabolic reflector antennas, commonly known as dish antennas, use their unique geometry for high-gain, long-distance transmission and reception
- Their shape is mathematically determined to ensure all incoming waves converge at a single point
- Different types include standard and offset parabolic antennas
- Despite their large size and weather vulnerability, recent advancements are improving their efficiency
- Their key roles include radio astronomy, satellite communication, and radar systems





# Microwave Antenna Technology Osu Reflector Antenna Code Users Manual

**Valentine Korah** 

#### Microwave Antenna Technology Osu Reflector Antenna Code Users Manual:

Microwave Antenna Technology: OSU Reflector Antenna Code. User's Manual ,1987 The major purpose of this research is to provide a computer aided analysis and design capability for microwave reflector antenna systems in the 1 40 GHz range This capability will allow for the prediction of antenna gain and antenna temperature performance of reflector antennas under various atmospheric conditions The analysis and design capability was accomplished in part by further development of the OSU Reflector Antenna Code The analysis capability of the Reflector Code was used to guide the design of the seven reflector antennas of both the focal point and Cassegrain types These seven reflector antenna designs were fabricated and tested The measured data obtained from these tests were used to validate the Reflector Antenna Code The use of the Reflector Antenna code is documented in Volume III of this final report This report documents the seven reflector antenna designs which were fabricated and measured to demonstrate and test the computer aided analysis and design capability Selected pattern and gain data calculated by the Reflector Antenna Code and the validating measured data are given A more comprehensive set of measured data for the seven reflector antenna designs is presented in Volume II of this final report

A Collection of Technical Papers: Structures and Government Reports Announcements & Index ,1996 Integrated Structure Electromagnetic Optimization of Large Space Antenna Reflectors, 1987 materials .1987 Inflight characterization of the electromagnetic environment inside an airliner Karl J. Moeller, 2001 NASA Technical Scientific and Technical Aerospace Reports, 1992 Microwave Journal ,1995 Who's who in Paper ,1990 **Technology Today** ,1984 Government Reports Annual Index ,1986 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z Electrical & Electronics Abstracts ,1997 A Directory of Computer Software Applications--electrical and Electronics Engineering, 1970-Sept. 1978 United States. National Technical Information Service, 1978 Who's who in Technology Today Barbara A. Tinucci, Louann Chaudier, 1984 International Aerospace Abstracts ,1991 An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994 New Research Centers ,1968 U.S. Government Research Reports ,1958 Bibliography of Lewis Research Center Technical Publications Announced in 1990, 1991 Who's who in Technology, 1986 Who's who in **Technology** Louann Chaudier, 1986

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