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	Soggetti	Deep Space Network - Equipment and supplies Satellite dish antennas Electronic books.
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	Nota di contenuto	Large Antennas of the Deep Space Network; Table of Contents; Foreword; Preface; Acknowledgments; Chapter 1: Introduction; 1.1 Technology Drivers; 1.1.1 Frequency Bands Allocated to the Deep Space Network; 1.2 Analysis Techniques for Designing Reflector Antennas; 1.2.1 Radiation-Pattern Analysis; 1.2.2 Feed-Horn Analysis; 1.2.3 Spherical-Wave Analysis; 1.2.4 Dual Reflector Shaping; 1.2.5 Quasioptical Techniques; 1.2.6 Dichroic Analysis; 1.2.7 Antenna Noise-Temperature Determination; 1.3 Measurement Techniques; 1.3.1 Theodolite Measurements; 1.3.2 Microwave Holography 1.3.3 Aperture Gain and Efficiency Measurements1.3.4 Noise-Temperature Measurements; 1.4 Techniques for Designing Beam-Waveguide Systems; 1.4.1 Highpass Design; 1.4.2 Focal-Plane Matching; 1.4.3 Gaussian-Beam Design; 1.4.4 High-Power Design; 1.5 Summary; References; Chapter 2: Deep Space Station 11 : Pioneer-The First Large Deep Space Network Cassegrain Antenna; 2.1 Introduction to the Cassegrain Concept; 2.2 Factors Influencing Cassegrain

Sommario/riassunto

An important historical look at the space program's evolving telecommunications systemsLarge Antennas of the Deep Space Network traces the development of the antennas of NASA's Deep Space Network (DSN) from the network's inception in 1958 to the present. It details the evolution of the large parabolic dish antennas, from the initial 26-m operation at L-band (960 MHz) through the current Ka-band (32 GHz) systems. Primarily used for telecommunications, these antennas also support radar and radio astronomy observations in the exploration of the solar system and the universe. In addition,

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Autore	DICKSON, Lovat
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