

SMALL ANTENNA MEASUREMENTS IN SPHERICAL NEARFIELD SYSTEMS

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Abstract

Small antennas and other modern antenna applications are using increasingly higher frequencies while demanding very rapid development and testing cycles. A fast, reliable and accurate way to exhaustively determine antenna performance is based on spherical near field measurement techniques combined with probe array technology.

The StarLab spherical near field measurement system has recently evolved to cover the entire frequency band from 800MHz to 18GHz as discussed in [1, 2, 3]. The system is based on patented probe array technology and advanced modulated scattering technique, A-MST [4, 5]. The measurement system is mainly aimed at the characterization of wireless terminals for development, pre-qualification or pass/fail production purposes. It is flexible, with functionalities that can be easily extended depending on the needs of the user. The equipment can be interfaced with different RF measurement devices in order to perform either passive or active measurements.

This paper describes the innovative design aspects of the evolved measurement system and present results from the validation campaign. The use of diagnostic and analysis software modules for efficient antenna testing is also presented.

1 Introduction

The StarLab spherical near field measurement system is shown in Figure 1. The original probe array of 15 dual polarized probes covering the lower frequency range up to 6GHz band has been complemented with a second set of 16 probes covering the frequency range from 6-18GHz. The two arrays are interleaved and fully integrated in the original structure of the StarLab. The new system offers wider bandwidth, the speed advantages of a probe array while the mechanical rotation in elevation allows for unlimited angular resolution over the full 3D sphere. With integrated diagnostic software modules the antenna designer can rapidly determine sources of erroneous performance and provide corrective actions in real time [6, 7].



Figure 1: StarLab 18GHz spherical near field measurement system based on A-MST technology.

A key feature of the StarLab is its compactness allowing it to be used directly in laboratories or production centers without extra logistics. The mechanical structure is mounted on wheels and the compact dimensions allow it to go through a standard double door. If needed one of the two cylinders of absorbers can easily be removed in order to pass through a standard single door.

2 StarLab system description

Field sampling is performed by a wide band probe array composed of a number of evenly spaced elements along the circumference of the support structure. The Device Under Test (DUT) is located in the center of the system on top of a Rohacell® foam column. The full sphere measurement is performed by electronically scanning the probe array in elevation and rotating the DUT 180° in azimuth. As a consequence a full 3D measurement can be performed very rapidly compared to conventional single-probe systems.

The probe array structure can mechanically rotate around its center increasing the number of measurement points by an integer factor (over-sampling factor). This feature enables the user to perform measurements with a high number of sampling points as show in Figure 2.

Nearfield Antenna Measurements

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Nearfield Antenna Measurements:

This book delves into Nearfield Antenna Measurements. Nearfield Antenna Measurements is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Nearfield Antenna Measurements, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Nearfield Antenna Measurements
- Chapter 2: Essential Elements of Nearfield Antenna Measurements
- Chapter 3: Nearfield Antenna Measurements in Everyday Life
- Chapter 4: Nearfield Antenna Measurements in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Nearfield Antenna Measurements. The first chapter will explore what Nearfield Antenna Measurements is, why Nearfield Antenna Measurements is vital, and how to effectively learn about Nearfield Antenna Measurements.
3. In chapter 2, the author will delve into the foundational concepts of Nearfield Antenna Measurements. This chapter will elucidate the essential principles that need to be understood to grasp Nearfield Antenna Measurements in its entirety.
4. In chapter 3, this book will examine the practical applications of Nearfield Antenna Measurements in daily life. The third chapter will showcase real-world examples of how Nearfield Antenna Measurements can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Nearfield Antenna Measurements in specific contexts. This chapter will explore how Nearfield Antenna Measurements is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Nearfield Antenna Measurements. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Nearfield Antenna Measurements.

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