

Phased Array Antenna Patterns— Part I: Linear Array Beam Characteristics and Array Factor

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Introduction

With the proliferation of digital phased arrays in commercial and aerospace and defense applications, there are many engineers working on various aspects of the design who have limited phased array antenna familiarity. Phased array antenna design is not new, as the theory has been well developed over decades; however, most of the literature is intended for antenna engineers well versed in the electromagnetic mathematics. As phased arrays begin to include more mixed-signal and digital content, there are many engineers who could benefit from a much more intuitive explanation of phased array antenna patterns. As it turns out, there are many analogies between the behavior of phased array antennas and the discrete time sampled systems that the

mixed-signal and digital engineers work with every day.

These articles are not intended to create antenna design engineers, but rather to help the engineer working on a subsystem or component used in a phased array to visualize how their effort may impact a phased array antenna pattern.

Beam Direction

First, let's look at an intuitive example of steering a phased array beam. Figure 1 provides a simple illustration of a wavefront striking four antenna elements from two different directions. A time delay is applied in the receive path after each antenna element, and then all four signals

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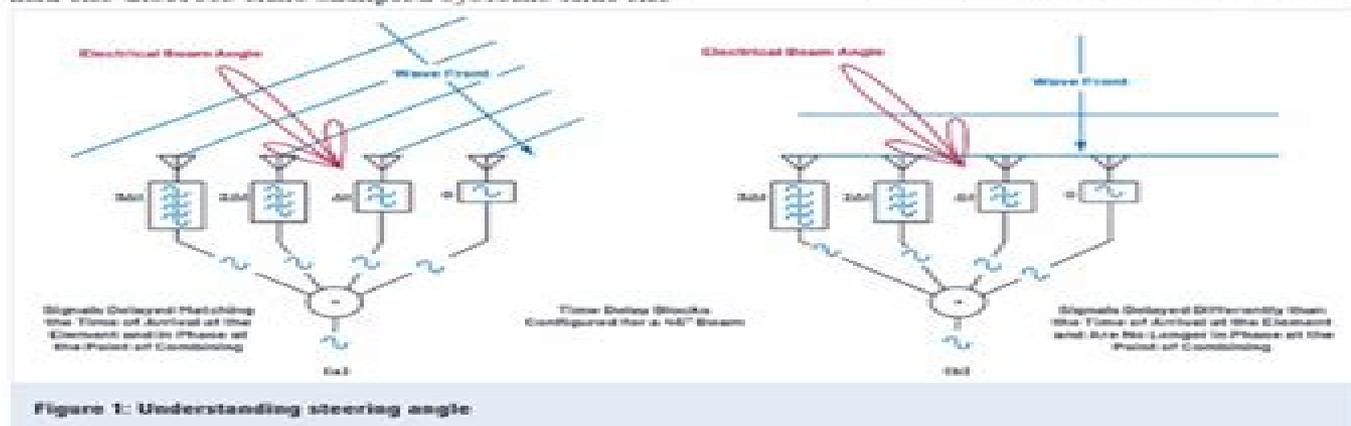


Figure 1: Understanding steering angle

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Table of Contents Array And Phased Array Antenna Basics

1. Understanding the eBook Array And Phased Array Antenna Basics
 - The Rise of Digital Reading Array And Phased Array Antenna Basics
 - Advantages of eBooks Over Traditional Books
2. Identifying Array And Phased Array Antenna Basics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Array And Phased Array Antenna Basics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Array And Phased Array Antenna Basics
 - Personalized Recommendations
 - Array And Phased Array Antenna Basics User Reviews and Ratings
 - Array And Phased Array Antenna Basics and Bestseller Lists
5. Accessing Array And Phased Array Antenna Basics Free and Paid eBooks

- Array And Phased Array Antenna Basics Public Domain eBooks
 - Array And Phased Array Antenna Basics eBook Subscription Services
 - Array And Phased Array Antenna Basics Budget-Friendly Options
6. Navigating Array And Phased Array Antenna Basics eBook Formats
 - ePub, PDF, MOBI, and More
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 - Array And Phased Array Antenna Basics Enhanced eBook Features
 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Array And Phased Array Antenna Basics
 - Interactive Elements Array And Phased Array Antenna Basics
 8. Staying Engaged with Array And Phased Array Antenna Basics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Array And Phased Array Antenna Basics
 9. Balancing eBooks and Physical Books Array And Phased Array Antenna Basics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Array And Phased Array Antenna Basics
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Array And Phased Array Antenna Basics
 - Setting Reading Goals Array And Phased Array Antenna Basics
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Array And Phased Array Antenna Basics
 - Fact-Checking eBook Content of Array And Phased Array Antenna Basics
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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