

Matlab Code to Design A Slotted Waveguide Array Antenna

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Abstract

This article presents a MATLAB script used to design slotted waveguide array (SWA) antennas. A brief theory of the antenna is discussed to understand the scope and requirement of this code. A numerical comparison is also presented to design a SWA of 25 GHz to validate the proposed script.

I. INTRODUCTION

Slotted waveguide array antenna is known for its high power radiation and is often employed in space applications. It possesses a significantly high antenna gain by exploiting the radiations through multiple slots placed at half wavelength distances. The effects of slots on waveguide is thoroughly discussed in [1] which inspired the design of SWA as discussed in [2], [3], [5]. The slot placement on the waveguide plays a critical role to optimize the antenna radiation at a given frequency. In this article a MATLAB script is presented which is inspired by the analytical discussion presented in [3]–[6]. A brief theory of SWA is discussed in Sec. II which is followed by the Matlab script in Sec. III, numerical validation in Sec. IV and conclusion in Sec. V.

II. THEORY

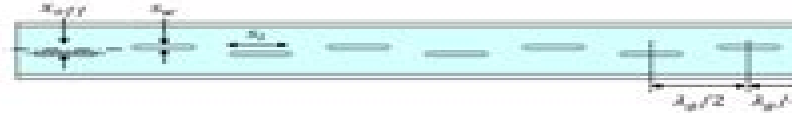


Fig. 1. Schematic of a SWA indicating the slot length a_s , slot width a_w and slot offset from the longitudinal axis x_{off} . λ_g is the guided wavelength at the operating frequency considering the waveguide dimensions.

Schematic of a conventional SWA is shown in Fig. 1. It consists of a rectangular waveguide terminated at one end with multiple slots on one of its broad wall. The slots are placed longitudinally in a tandem orientation by maintaining a distance of the multiple of the guided wavelength (λ_g). It increases the interaction of slots with the standing wave inside the terminated waveguide to increase the antenna radiation. The total radiated electric field ($E_r(\theta)$) can be approximated using array theory by considering the radiation from individual slots

$$E_r(\theta) = f(\theta) \sum_{n=1}^N \alpha_n e^{jnk \frac{\lambda_g}{2} \cos \theta} \quad (1)$$

where, $f(\theta)$ is the radiated electric field of a slot, α_n is the magnitude of excitation coefficient of the n th slot, k is the free space wave number at the operating frequency and θ is the angle of observation. Since the slot-field is a function its placement about the waveguide axis, the conductance of the n th slot can be calculated from the excitation coefficients as

$$g_n = \frac{\alpha_n^2}{\sum_{n=1}^N \alpha_n^2} \quad (2)$$

It can also be expressed in terms of the design parameters of the SWA as

$$g_n = 2.09 \frac{\lambda_g}{\lambda_0} \frac{a}{b} \cos^2 \left(\frac{\pi \lambda_0}{2 \lambda_g} \right) \sin^2 \left(\frac{\pi x_{off}}{a} \right) \quad (3)$$

where, a and b are the inner dimensions of the corresponding waveguide. These equations are used to design the SWAs at the operating frequency as will be explained in the following section.

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1. Understanding the eBook Matlab Code For Optical Waveguide
 - The Rise of Digital Reading Matlab Code For Optical Waveguide
 - Advantages of eBooks Over Traditional Books
2. Identifying Matlab Code For Optical Waveguide
 - 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 Matlab Code For Optical Waveguide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab Code For Optical Waveguide
 - Personalized Recommendations
 - Matlab Code For Optical Waveguide User Reviews and Ratings
 - Matlab Code For Optical Waveguide and Bestseller Lists
5. Accessing Matlab Code For Optical Waveguide Free and Paid eBooks
 - Matlab Code For Optical Waveguide Public Domain eBooks
 - Matlab Code For Optical Waveguide eBook Subscription Services
 - Matlab Code For Optical Waveguide Budget-Friendly Options
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- ePub, PDF, MOBI, and More
- Matlab Code For Optical Waveguide Compatibility with Devices
- Matlab Code For Optical Waveguide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matlab Code For Optical Waveguide
 - Highlighting and Note-Taking Matlab Code For Optical Waveguide
 - Interactive Elements Matlab Code For Optical Waveguide
- 8. Staying Engaged with Matlab Code For Optical Waveguide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matlab Code For Optical Waveguide
- 9. Balancing eBooks and Physical Books Matlab Code For Optical Waveguide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matlab Code For Optical Waveguide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Matlab Code For Optical Waveguide
 - Setting Reading Goals Matlab Code For Optical Waveguide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Matlab Code For Optical Waveguide
 - Fact-Checking eBook Content of Matlab Code For Optical Waveguide
 - 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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