

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]–[4]. 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], [4]. 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

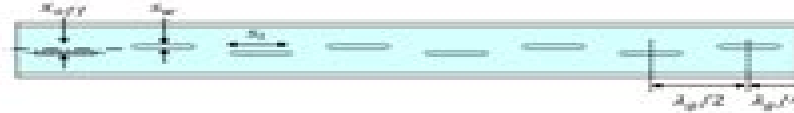


Fig. 1. Schematic of a SWA indicating the slot length s_l , slot width s_w and slot offset from the longitudinal axis x_{off} . λ_g is the guided wavelength at the operating frequency considering the waveguide dimensions.

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 of its placement about the waveguide axis, the conductance of the n th slot can be calculated from the excitation coefficients as

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

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.

Dielectric Waveguide Model Matlab Code

Matthew N.O. Sadiku



Dielectric Waveguide Model Matlab Code:

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Electromagnetic and Photonic Simulation for the Beginner: Finite-Difference Frequency-Domain in MATLAB® Raymond C. Rumpf, 2022-01-31 This book teaches the finite difference frequency domain FDFD method from the simplest concepts to advanced three dimensional simulations It uses plain language and high quality graphics to help the complete beginner grasp all the concepts quickly and visually This single resource includes everything needed to simulate a wide variety of different electromagnetic and photonic devices The book is filled with helpful guidance and computational wisdom that will help the reader easily simulate their own devices and more easily learn and implement other methods in computational electromagnetics Special techniques in MATLAB are presented that will allow the reader to write their own FDFD programs Key concepts in electromagnetics are reviewed so the reader can fully understand the calculations happening in FDFD A powerful method for implementing the finite difference method is taught that will enable the reader to solve entirely new differential equations and sets of differential equations in mere minutes Separate chapters are included that describe how Maxwell's equations are approximated using finite differences and how outgoing waves can be absorbed using a perfectly matched layer absorbing boundary With this background a chapter describes how to calculate guided modes in waveguides and transmission lines The effective index method is taught as way to model many three dimensional devices in just two dimensions Another chapter describes how to calculate photonic band diagrams and isofrequency contours to quickly estimate the properties of periodic structures like photonic crystals Next a chapter presents how to analyze diffraction gratings and calculate the power coupled into each diffraction order This book shows that many devices can be simulated in the context of a diffraction grating including guided mode resonance filters photonic crystals polarizers metamaterials frequency selective surfaces and metasurfaces Plane wave sources Gaussian beam sources and guided mode sources are all described in detail allowing devices to be simulated in multiple ways An optical integrated circuit is simulated using the effective index method to build a two dimensional model of the 3D device and then launch a guided mode source into the circuit A chapter is included to describe how the code can be modified to easily perform parameter sweeps such as plotting reflection and transmission as a function of frequency wavelength angle of incidence or a dimension of the device The last chapter is advanced and teaches FDFD for three dimensional devices composed of anisotropic materials It includes simulations of a crossed grating a doubly periodic guided mode resonance filter a frequency selective surface and an invisibility cloak The chapter also includes a parameter retrieval from a left handed metamaterial The book includes all the MATLAB codes and detailed explanations of all programs This will allow the reader to easily modify the codes to simulate their own ideas and devices The author has created a website where the MATLAB codes can be downloaded errata can be seen and other learning resources can be accessed This is an ideal book for both an undergraduate elective course as well as a graduate course in computational electromagnetics because it covers the background material so well and includes examples of many different types of devices

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Advanced Electromagnetic Computation Dikshitulu K. Kalluri, 2017-11-28 Advanced Electromagnetic Computation with MATLAB discusses commercial electromagnetic software widely used in the industry Algorithms of Finite Differences Moment method Finite Element method and Finite Difference Time Domain method are illustrated Hand computed simple examples and MATLAB coded examples are used to explain the concepts behind the algorithms Case studies of practical examples from transmission lines waveguides and electrostatic problems are given so students are able to develop the code and solve the problems Two new chapters including advanced methods based on perturbation techniques and three dimensional finite element examples from radiation scattering are included *Balanis' Advanced Engineering Electromagnetics* Constantine A. Balanis, 2024-01-31 Balanis Advanced Engineering Electromagnetics The latest edition of the foundational guide to advanced electromagnetics Balanis third edition of Advanced Engineering Electromagnetics a global best seller for over 30 years covers the advanced knowledge engineers involved in electromagnetics need to know particularly as the topic relates to the fast moving continuously evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antennas microwaves and wireless communications points to an increase in the number of engineers needed to specialize in this field Highlights of the 3rd Edition include A new chapter on Artificial Impedance Surfaces AIS contains

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Advanced Engineering Electromagnetics Constantine A. Balanis, 2012-01-24 Balanis second edition of Advanced Engineering Electromagnetics a global best seller for over 20 years covers the advanced knowledge engineers involved in electromagnetic need to know particularly as the topic relates to the fast moving continually evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antenna microwave and wireless communication points to an increase in the number of engineers needed to specialize in this field In addition the Instructor Book Companion Site contains a rich collection of multimedia resources for use with this text Resources include Ready made lecture notes in Power Point format for all the chapters Forty nine MATLAB programs to compute plot and animate some of the wave phenomena Nearly 600 end of chapter problems that s an average of 40 problems per chapter 200 new problems 50% more than in the first edition A thoroughly updated Solutions Manual 2500 slides for Instructors are included

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Table of Contents Dielectric Waveguide Model Matlab Code

1. Understanding the eBook Dielectric Waveguide Model Matlab Code
 - The Rise of Digital Reading Dielectric Waveguide Model Matlab Code
 - Advantages of eBooks Over Traditional Books
2. Identifying Dielectric Waveguide Model Matlab Code
 - 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 Dielectric Waveguide Model Matlab Code
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dielectric Waveguide Model Matlab Code
 - Personalized Recommendations
 - Dielectric Waveguide Model Matlab Code User Reviews and Ratings
 - Dielectric Waveguide Model Matlab Code and Bestseller Lists
5. Accessing Dielectric Waveguide Model Matlab Code Free and Paid eBooks
 - Dielectric Waveguide Model Matlab Code Public Domain eBooks
 - Dielectric Waveguide Model Matlab Code eBook Subscription Services

- Dielectric Waveguide Model Matlab Code Budget-Friendly Options
- 6. Navigating Dielectric Waveguide Model Matlab Code eBook Formats
 - ePub, PDF, MOBI, and More
 - Dielectric Waveguide Model Matlab Code Compatibility with Devices
 - Dielectric Waveguide Model Matlab Code Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dielectric Waveguide Model Matlab Code
 - Highlighting and Note-Taking Dielectric Waveguide Model Matlab Code
 - Interactive Elements Dielectric Waveguide Model Matlab Code
- 8. Staying Engaged with Dielectric Waveguide Model Matlab Code
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dielectric Waveguide Model Matlab Code
- 9. Balancing eBooks and Physical Books Dielectric Waveguide Model Matlab Code
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dielectric Waveguide Model Matlab Code
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Dielectric Waveguide Model Matlab Code
 - Setting Reading Goals Dielectric Waveguide Model Matlab Code
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Dielectric Waveguide Model Matlab Code
 - Fact-Checking eBook Content of Dielectric Waveguide Model Matlab Code
 - 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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