

# 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

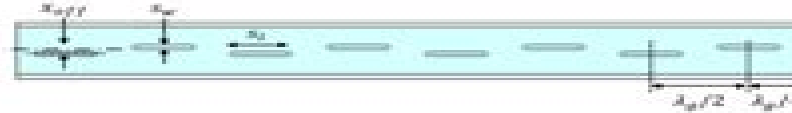


Fig. 1. Schematic of a SWA indicating the slot length  $a_s$ , slot width  $a_w$  and slot offset from the longitudinal axis  $x_{off}$ .  $\lambda_g$  is the guided wavelength at the operating frequency considering the waveguide dimensions.

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 ( $\lambda_g$ ). 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,  $\alpha_n$  is the magnitude of excitation coefficient of the  $n$ th slot,  $k$  is the free space wave number at the operating frequency and  $\theta$  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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Grating-assisted Glass Waveguide Devices and Fiber-optic Parametric Amplifiers for Optical Communication Systems Jaeyoun Kim, 2003

*Optical Fiber and Planar Waveguide Technology* Australian Optical Society, Tong xun shi jie, Society of Photo-optical Instrumentation Engineers, Oputoronikususha, 2001

Frontiers in Optics and Photonics Federico Capasso, Dennis Couwenberg, 2021-06-08. This book provides a cutting edge research overview on the latest developments in the field of Optics and Photonics. All chapters are authored by the pioneers in their field and will cover the developments in Quantum Photonics, Optical properties of 2D Materials, Optical Sensors, Organic Opto electronics, Nanophotonics, Metamaterials, Plasmonics, Quantum Cascade lasers, LEDs, Biophotonics and biomedical photonics and spectroscopy.

**European Workshop on Structural Health Monitoring** Piervincenzo Rizzo, Alberto Milazzo, 2022-06-21. This volume gathers the latest advances, innovations and applications in the field of structural health monitoring (SHM) and more broadly in the fields of smart materials and intelligent systems as presented by leading international researchers and engineers at the 10th European Workshop on Structural Health Monitoring (EWSHM) held in Palermo, Italy, on July 4-7, 2022. The volume covers highly diverse topics including signal processing, smart sensors, autonomous systems, remote sensing and support UAV platforms for SHM, Internet of Things, Industry 4.0 and SHM for civil structures and infrastructures. The contributions, which are published after a rigorous international peer review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists.

**Arrayed Waveguide Gratings (AWG) and Optical Amplifier Subsystems for Their Applications in Advanced Optical Networks** Jing Cao, 2007

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to the wider archaeological community The papers in this volume were presented at a conference held at Queen's University Belfast in 2001 which provided a forum for a discussion of the new Neolithic material from Ireland in its wider geographical context Although the bulk of the emerging Irish settlement evidence relates to substantial houses many of these papers consider wider themes including issues of contact and communication along the sea routes and coastal margins of north west Europe questions of diversity and regional patterns of sedentism and mobility and variations in regional food production strategies

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